

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
CONOCOPHILLIPS COMPANY / LAKE CHARLES REFINERY
AREA B / FCC AMMONIA INJECTION PROJECT
PROPOSED PART 70 AIR OPERATING PERMIT MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on proposed Part 70 air operating permit modification for ConocoPhillips Company, P. O. Box 37, Westlake, LA 70669 for the Lake Charles Refinery - Area B / FFC Ammonia Injection Project. **The facility is located at 2200 Old Spanish Trail, Westlake, Calcasieu Parish.**

ConocoPhillips Company requested a permit modification for the FCC Ammonia Injection Project. ConocoPhillips proposes to inject aqueous ammonia into the flue gas of the FCC Unit (RLP057) to aid in the control of particulate emissions. The FCC Unit utilizes an electrostatic precipitator (ESP) for particulate control. The aqueous ammonia injection would enhance the particulate emission control efficiency of the ESP. The process of injecting aqueous ammonia will result in ammonia being emitted out of the FCC Unit stack. The facility currently operates under Permit No. 2624-V5.

Estimated emissions from the Lake Charles Refinery – Area B in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	96.23	96.23	-
SO ₂	1,644.58	1,644.58	-
NO _X	698.25	698.25	-
CO	870.47	870.47	-
VOC	299.06	299.05	- 0.01
NH ₃	0.04	131.64	+ 131.60
H ₂ S	2.47	2.47	-
H ₂ SO ₄	58.88	58.88	-

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Wednesday, June 13, 2007.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The proposed Part 70 air operating permit modification, application and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed at Calcasieu Parish Public Library, Westlake Branch, 937 Mulberry Street, Westlake, LA and the Calcasieu Parish Public Library, Sulphur Regional Branch, 1160 Cypress Street, Sulphur, LA.

Inquiries or requests for additional information regarding this permit action should be directed to Dr. Qingming Zhang, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3240.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmaillistrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify A1 Number 2538, Permit Number 2624-V6, and Activity Number PER20070004.

Publication date: May 11, 2007



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER20070004

Agency Interest No.: 2538

Mr. John G. Gott
Manager, Lake Charles Refinery
ConocoPhillips Company
P. O. Box 37
Westlake, LA 70669

RE: Operating permit modification, Lake Charles Refinery – Area B, ConocoPhillips Company, Westlake, Calcasieu Parish, Louisiana

Dear Mr. Gott:

This is to inform you that the permit modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the 24th of August, 2010, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2007.

Permit No.: 2624-V6

Sincerely,

Chuck Carr Brown Ph.D.

Assistant Secretary

CCB:QMZ

c: EPA Region VI

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B
AGENCY INTEREST NO. 2538
CONOCOPHILLIPS COMPANY
WESTLAKE, CALCASIEU PARISH, LOUISIANA

I. Background

Lake Charles Refinery is a fully integrated petroleum refinery facility, which was first permitted in 1975. It is organized into five operating areas: Area A, Area B, Area C, Area D, and Excel Paralubes. ConocoPhillips Company (formerly Conoco Inc.) presently operates the refinery under the following permits:

PSD-LA-390	granted 08/10/1981
PSD-LA-419	granted 10/08/1981
PSD-LA-533 (M-3)	granted 07/02/1993
PSD-LA-584 (M-4)	granted 05/19/2006
PSD-LA-699	granted 05/28/2004
2623-V3	granted 08/24/2005 (for Area A)
2624-V5	granted 07/20/2006 (for Area B)
2625-V5	granted 01/16/2007 (for Area C)
2626-V3	granted 08/24/2005 (for Area D)
2627-V2	granted 08/24/2005 (for Excel Paralubes)

II. Origin

A permit application and Emission Inventory Questionnaire, dated January 31, 2007, were submitted by ConocoPhillips Company requesting a Part 70 operating permit modification. Additional information dated March 9 and 20, 2007 was also received.

III. Description

Lake Charles Refinery (LCR) processes crude oils into chemical and petrochemical feedstocks, gasoline, heating oil, residual fuels, petroleum coke, lube oils, and other miscellaneous products. To refine the crude, it utilizes crude-topping units, crude vacuum units, a fluid catalytic cracking unit, an alkylation unit, a polymerization unit, catalytic reformers, desulfurization units, petroleum coking units, a calcining unit, sulfur recovery units, a hydrodewaxer unit, a hydrofinisher unit and associated infrastructure including plant utilities. Lake Charles Refinery is organized into Area A, Area B, Area C, Area D, and Excel Paralubes. This permit covers Area B, which consists of the following process units:

Alkylation Unit

This unit produces alkylate from the reaction of olefins and isobutane in the presence of sulfuric acid as a catalyst. Olefins and isobutane are fed in a controlled ratio, cooled, and then mixed with acid in a reactor where alkylation reaction takes place to form alkylate.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY - AREA B

AGENCY INTEREST NO. 2538

CONOCOPHILLIPS COMPANY

WESTLAKE, CALCASIEU PARISH, LOUISIANA

Unreacted feedstocks are separated from the alkylate product in the Fractionation Section. A deisobutanizer (DIB) receives the hydrocarbon stream from the acid settler after any carry over acid from the settler is neutralized with caustic. The DIB overhead that is not refluxed back to the reactor is routed to isobutane storage. The DIB bottoms are fed to a debutanizer tower. The n-butane overhead product from the debutanizer is sent to storage. Alkylate tower bottoms are cooled and sent to gasoline storage for blending. Fugitives are the only emissions from this unit.

Catalytic Polymerization Unit

This unit is used to polymerize olefins (propylene and butylene) into compounds for blending into the gasoline pool. Feedstock to the unit is primarily propane and propylene (PP) with some lighter and heavier ends. Feed is preheated and then charged to a reactor filled with phosphoric acid impregnated catalyst. Products from the reactor are fractionated in a series of two towers in the Fractionation Section into propane, cat poly gasoline, and butane product streams. Any light ends are vented to the fuel gas system. Fugitives are the only emissions from this unit.

Cryogenic Unit

The Cryogenic Unit recovers propane, propylene, and heavier liquid products from refinery light hydrocarbons under low temperature and high pressure conditions. Feed moisture must be removed before processing to avoid ice and hydrate formations within the unit. Drying is achieved by the use of a glycol absorption system and a mole sieve dehydrator system. The "cold section" utilizes a turbo-expander and a freon refrigeration system to lower the temperature of the dried inlet gas. The cooled material is then fractionated into refinery fuel gas and export gas. Recovered liquids are further processed in various downstream units. Fugitives are the only emissions from this unit.

Vapor Recovery Unit (FCC Product Fractionation)

Vapor Recovery Unit (VRU) is the production section of the FCC. It distills FCC effluent into gasoline, heating oil, slurry, butane-butylene, propane-propylene, and lighter components. It also processes some streams from other refinery units. The following distillation towers and treating vessels are in VRU: Prefractionator, Depropanizer, PP Amine Absorber, Caustic Washer, Water Washer, Propane Dryer, and Fuel Gas Export Tower. Fugitives are the only emissions from this unit.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B

AGENCY INTEREST NO. 2538

CONOCOPHILLIPS COMPANY

WESTLAKE, CALCASIEU PARISH, LOUISIANA

Fluid Catalytic Cracker (FCC) and Auxiliaries

FCC converts high boiling range gas oils to high octane gasoline for blending. Other products in the FCC effluent are heating oil, slurry, butane, propane, and light ends. Gas oil feeds are preheated and routed to a riser in the catalyst reaction vessel. Steam is injected along with the feed in special feed/steam mixing nozzles to help atomize the gas oil for even dispersal as it comes in contact with hot regenerated catalyst traveling up the riser. The cracking reactions take place as the extending vapors and catalyst travel up the riser. Hydrocarbon vapors are separated from the catalyst in the disengager and then routed to Vapor Recovery Unit in Production Fractionation Section.

Catalyst is reactivated in a regenerator and reused. Makeup FCC catalyst is added to the regenerator to control catalyst level. Various additives, which may include NO_x and SO₂ reduction additives, are also added to control emissions from the FCC unit. Catalyst is separated from the flue gas leaving the regenerator. Flue gas is quenched with steam and boiler feed water, further cooled to generate superheated steam, goes through an electrostatic precipitator to remove entrained catalyst fines, and is then discharged to atmosphere. Emission sources in this unit include an FCC regenerator, a heater, and fugitives.

Fuel Gas Treating

Fuel Gas Treating removes hydrogen sulfide (H₂S) gas from various refinery gas streams. There are two systems in this unit: propane/butane (PB) treating and fuel gas treating. Both systems use lean amine to remove H₂S. In the PB treating, lean amine from Primary Amine unit enters the top of the contactor tower and absorbs H₂S. The rich amine is sent back to Primary Amine unit for regeneration. PB is taken off the tower, fed through a knockout drum to remove any carried over amine, and then routed to the caustic treating area.

In the fuel gas treating, off-gas from Gas Recovery Plant and tail gas from FCC Division enter a contactor near its bottom. After contacting with amine to remove H₂S, the gas leaves the top of the contactor and flows through an amine knockout pot to Cryogenic Unit or to the fuel gas drum. There are no air emissions from this unit.

No. 1 & 2 Sulfur Plants

Sulfur Recovery Plants convert H₂S from the amine regenerators and sour water strippers to sulfur. A sulfur plant can be broken down into the following three stages: Claus Stage, Beavon Stage, and Tailgas Amine Stage. Claus Stage converts H₂S into

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B

AGENCY INTEREST NO. 2538

CONOCOPHILLIPS COMPANY

WESTLAKE, CALCASIEU PARISH, LOUISIANA

sulfur and water. Beavon Stage converts any remaining sulfur compounds back into H₂S. Tailgas Amine Stage includes an amine tailgas unit and a thermal oxidizer. The amine tailgas unit recovers H₂S and sends it back to Claus Stage. Trace H₂S is oxidized to SO₂ in the thermal oxidizer and discharged to the SRU stack. Emission sources include a thermal oxidizer and fugitives.

No. 1, 2, & 3 Sour Water Strippers

There are five sour water strippers, three of them are located in this unit. The sour water strippers are designed to remove hydrogen sulfide (H₂S) and ammonia (NH₃) from sour water. Sour water is collected from different refinery divisions into sour water headers and sent to a common collection drum and tankage. No. 1, 2, & 3 Sour Water Strippers are three separate units, each uses a fractionation tower to separate ammonia and H₂S from the sour water streams. The recovered gases are processed in Sulfuric Acid Unit or Sulfur Recovery Unit to make sulfuric acid, elemental sulfur, or other products. Acids or bases are used to control pH of the tower bottoms. Stripped sour water is further processed in the wastewater treatment system and discharged through an NPDES outfall or reused in other refinery process units. No air emissions are released from this unit.

Primary Amine Units (No. 1, 2, & 3 Amine Regeneration)

Primary Amine Units consist of three similar amine regeneration units, referred to as No. 1, No. 2, and No. 3 Amine Regeneration Units. They produce lean amine for various contactors throughout the refinery used for H₂S absorption. Rich amine is received into flash drums where entrained hydrocarbons are flashed to the refinery fuel system. Liquid hydrocarbons are recovered from the flash drums and routed to the refinery slop oil system. Amine is then heated and sent to the regenerators. H₂S is desorbed from amine in the regenerators, cooled in the pump-around section of the towers, and then pressured to SRU Units, Tessenderlo Davison Chemical NAHS, or Acid Plant. Lean amine from the bottom of the regenerators is cooled, filtered, and redistributed to high- and low-pressure contactors throughout the refinery. Fugitives are the only emissions from this unit.

No. 2 Crude Topping Unit

Crude Topping Unit provides the first major processing step to convert a wide-boiling range crude oil into marketable hydrocarbon products. Sweet crude from storage is preheated and sent to a desalter where metallic salts, water, dirt, and other impurities are removed. Desalinated crude is further heated before going to Preflash Tower and No. 2 Crude Tower. No. 2 Crude Tower distills the crude into naphtha, light and heavy heating

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B
AGENCY INTEREST NO. 2538
CONOCOPHILLIPS COMPANY
WESTLAKE, CALCASIEU PARISH, LOUISIANA

oil distillates, and diesel. These products are normally cooled and sent to storage. Gas oil product from the tower is normally sent to FCC Unit as feed. The bottom (reduced crude) is sent to Cit-Con or storage. Emission sources in this unit include heaters and fugitives.

Normal Paraffin Splitter

Normal Paraffin Splitter separates normal paraffins produced by Sasol Molex Unit. Light and heavy paraffins from the splitter are returned to Sasol storage and pumped off-site to Sasol. Fugitives are the only emissions from this unit.

PBC Distillation Unit (Casinghead Unit)

Propane, Butane, Condensate (PBC) Unit, also known as Casinghead Unit, is used to separate the mixture of light hydrocarbons into usable product streams. The unit consists of a number of distillation columns used to fractionate the feed into refinery fuel gas, propane, normal butane, isobutane, and denuded casinghead gasoline (stripped casinghead gasoline). Fugitives are the only emissions from this unit.

Plant Utilities

Plant utilities include Steam Generation System, Condensate Treatment, Power House, and Plant and Instrument Air. Steam Generation System provides heat from boilers and distributes it to refinery units. Condensate Treatment collects and treats steam condensate to produce quality boiler feedwater. Makeup water is added for the feedwater loss due to process usage or leaks. Power House generates and distributes electricity for use in the plant. LCR also purchases electricity to supplement the Power House. Plant and Instrument Air provides dry compressed air for plant and instrumental use. Boilers are the main emission sources from the plant utilities.

Railcar Loading

This facility loads and unloads sulfur, fresh sulfuric acid, fresh caustic, spent acids, and sulfides. Emission sources in this unit include loading losses and fugitives.

Sulfuric Acid Plant

Sulfuric Acid Plant treats spent acid to yield a reusable grade for use in the Alkylation Unit or export. It also processes waste gas streams with high concentrations of hydrogen sulfide and ammonia. Sour gas, acid gas, and spent sulfuric acid are routed to

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B
AGENCY INTEREST NO. 2538
CONOCOPHILLIPS COMPANY
WESTLAKE, CALCASIEU PARISH, LOUISIANA

a combustion chamber. From the combustion chamber, the gas stream flows through a waste heat boiler and superheater to be cooled. Heat released from the gas stream is used to generate steam. Cooled gas then flows to a humidifying tower where it is cleaned and cooled with weak acid. It is further cooled with primary and secondary coolers before entering a drying tower. The gas is then compressed and absorbed through contact with 98% sulfuric acid to produce a high purity sulfuric acid product. Emission sources in this plant include a sulfuric acid unit, a waste heat boiler, a heater, and fugitives.

Continuous Sweetening Unit (CSU) (Sweetening & Treating)

CSU consists of GRP Gasoline Treater, FCC Gasoline Treater; Propane, Butane, Condensate (PBC) Treater; and Acid Flare Treater. The purpose of continuous treating is to chemically remove, convert, and/or neutralize corrosive compounds (hydrogen sulfide, mercaptans, and sulfuric acid) and, through the addition of anti-oxidants, to prevent the formation of gums. After treatment in CSU, GRP and FCC gasoline is stored for later use as gasoline blending stock. PBC from No. 2 and No. 3 Crude Topping units is processed in CSU and sent back to storage for subsequent use as feedstock to other units. Acid gases are treated in Acid Flare Treater to neutralize the acids and thereby to reduce the amount of corrosive material sent to the flare system. Fugitives are the only emissions from this unit.

Thermal Cracking Unit

Thermal Cracking Unit converts gas oil to cracked gas oil feed stock. Feed is sent to a fractionation tower where distillates and lighter fluids are taken from the tower overhead and sent to other downstream processing units. Heavy and light gas oils are heated and sent to a soaking drum. The steam from the soaking drum is recycled to the fractionation tower. Emission sources in this unit include a heater and fugitives.

No. 5 Sour Water Stripper

Like No. 1, 2, and 3 Sour Water Strippers, this stripper is designed to remove hydrogen sulfide and ammonia from sour water produced in the various refinery divisions. However, this stripper only accepts non-desulfurized sour water from segregated streams. Through the use of a fractionation tower, recovered H₂S and NH₃ gases are processed in Sulfuric Acid Unit and Sulfur Recovery Unit to produce sulfuric acid, elemental sulfur, or other products. Acids or bases are used to control the pH of the tower bottoms. The stripped water is further processed in the wastewater treatment

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B

AGENCY INTEREST NO. 2538

CONOCOPHILLIPS COMPANY

WESTLAKE, CALCASIEU PARISH, LOUISIANA

system and then discharged through an NPDES outfall. There are no air emissions from this unit.

South Flare System

South Flare System provides a means to safely collect gases and/or liquids released from process units. It is also routinely used to purge and depressurize equipment. The new South Flare Gas Recovery Unit (located in Area A) reroutes most of the gas and liquids from South Flare System to the refinery's Gas Recovery Plant (GRP) for liquids recovery and fuel gas processing. The remaining gases and liquids are separated in knockout (KO) drums with gases being directed to the flare and liquids being recovered and sent to slop oil reprocessing. Emission sources in this unit include the flare and process fugitives.

Wastewater Treatment Unit

Wastewater Treatment Unit is used to treat effluent process water and surface/storm water produced in the Refinery and to provide firewater makeup for the Refinery. This unit is made up of three sections: Primary Treatment, Secondary Treatment, and Tertiary Treatment. Oily water is sent through a diversion tank to allow a steady flow and more constant load on the waste water system. Oil water separators remove most of the oil from the oily wastewater. Water flow from the separators is routed through dissolved gas flotation and induced gas flotation to remove more of the entrained oil from the wastewater. An equalization tank allows a more uniform load on the activated sludge unit (ASU), which utilizes biological treatment to further reduce effluent concentrations. ASU solids are removed in a clarifier and a dissolved air flotation (DAF) unit prior to being discharged through an NPDES outfall. Emission sources in this unit include a flare, tanks, and process fugitives.

With this modification, ConocoPhillips proposes to inject aqueous ammonia into the flue gas of the FCC Unit (RLP057) to aid in the control of particulate emissions. The FCC Unit utilizes an electrostatic precipitator (ESP) for particulate control. The aqueous ammonia injection would enhance the particulate emission control efficiency of the ESP. The process of injecting aqueous ammonia will result in ammonia being emitted out of the FCC Unit stack.

In addition, a tank (TK-10863) for aqueous ammonia storage will also be added for the operation.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B

AGENCY INTEREST NO. 2538

CONOCOPHILLIPS COMPANY

WESTLAKE, CALCASIEU PARISH, LOUISIANA

Estimated emissions from LCR's Area B in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	96.23	96.23	-
SO ₂	1,644.58	1,644.58	-
NO _x	698.25	698.25	-
CO	870.47	870.47	-
VOC	299.06	299.05	- 0.01
NH ₃	0.04	131.64	+ 131.60
H ₂ S	2.47	2.47	-
H ₂ SO ₄	58.88	58.88	-

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
1,3-Butadiene	0.13	0.13	-
2,2,4-Trimethylpentane	1.50	1.50	-
Acetonitrile	0.01	< 0.01	- 0.01
Aniline	0.11	0.11	-
Benzene	1.57	1.57	-
Biphenyl	0.31	0.31	-
Carbon disulfide	0.19	0.19	-
Cumene	0.18	0.18	-
Diethanolamine	0.10	0.10	-
Ethyl benzene	1.14	1.14	-
Methanol	0.02	0.02	-
n-Hexane	3.23	3.23	-
Naphthalene	1.75	1.75	-
para-Phenylenediamine	0.12	0.12	-
Phenol	0.12	0.12	-
Polynuclear Aromatic Hydrocarbons	0.84	0.84	-
Pyridine	0.12	0.12	-
Quinoline	0.11	0.11	-
Styrene	0.01	< 0.01	- 0.01
Toluene	3.89	3.89	-
Vinyl acetate	0.14	0.14	-
Xylene (mixed isomers)	4.35	4.35	-
Total	19.94	19.94	-

Other VOC (TPY):

279.11

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**LAKE CHARLES REFINERY – AREA B
AGENCY INTEREST NO. 2538
CONOCOPHILLIPS COMPANY
WESTLAKE, CALCASIEU PARISH, LOUISIANA**

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) review is not required.

This facility is part of a major source (Lake Charles Refinery) of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, and in the Lake Charles American Press, Lake Charles, on [date]. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on [date]. All comments will be considered prior to a final permit decision.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B

AGENCY INTEREST NO. 2538

CONOCOPHILLIPS COMPANY

WESTLAKE, CALCASIEU PARISH, LOUISIANA

VII. Effects on Ambient Air

Dispersion Model(s) Used: ISCST3

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
Ammonia	8-hr average	58.81 µg/m ³	640 µg/m ³

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates (tons/year)
Pipelines and Associated Equipment Clearing	2,190 times/yr	VOC: 1.56
Control Device Inspections	1,460 times/yr	VOC: 1.04
Control Device Service	208 times/yr	VOC: 2.97
Equipment Cleaning	730 times/yr	VOC: 1.73
Valve Maintenance	2,190 times/yr	VOC: 1.56
Miscellaneous Equipment Preparation	1,460 times/yr	VOC: 4.17
Compressor Maintenance	48 times/yr	VOC: 0.34
Rupture Disc Inspections	7,300 times/yr	VOC: 4.91
Tank Vent Inspections	24 times/yr	VOC: 3.84
Vent Maintenance	48 times/yr	VOC: 0.05
Filter and Strainer Changeouts	2,190 times/yr	VOC: 1.56
Draining Compressor Bottles	8,760 bottles/yr	VOC: 2.08
Pump Maintenance	2,190 times/yr	VOC: 2.60
Instrument Maintenance	26,280 times/yr	VOC: 3.74
Recharging Catalyst	96 times/yr	PM ₁₀ : 0.03; VOC: 1.73
Sampling	255,500 times/yr	VOC: 2.11
Tank Gauging	6,570 times/yr	VOC: 0.74
Vessel Preparation	2,190 times/yr	VOC: 3.11
Vacuum Truck Operations	2,190 times/yr	VOC: 3.83
Sludge Cleanout of Process Equipment	208 times/yr	VOC: 1.48
Heater Exchanger Draining/Cleanout	312 times/yr	VOC: 1.71
Sludge Removal from Tank, Pond, and Basin	208 times/yr	VOC: 4.73

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B
AGENCY INTEREST NO. 2538
CONOCOPHILLIPS COMPANY
WESTLAKE, CALCASIEU PARISH, LOUISIANA

Work Activity	Schedule	Emission Rates (tons/year)
Carbon Bed Recharge and Replacement	4,380 times/yr	VOC: 0.58
Sump Solids Removal	520 times/yr	VOC: 2.22
Temporary Storage (60 Frac Tanks/Roll-Off Boxes)	12 turnovers/yr	VOC: 3.61
Floating Roof Landings	4 times/yr	VOC: 4.67
Propane Moisture Testing	1,825 times/yr	VOC: 4.74
Changeouts of Salt Dryers in Diesel Streams	1,095 time/yr	VOC: 3.13
Roll Off Boxes Sent Off-side	105 boxes/yr	VOC: 3.50
Miscellaneous Painting of Equipment	6,570 gal/yr	PM ₁₀ : 3.78 ; VOC: 4.68

Note: The General Condition XVII activities listed above are the refinery-wide activities.

IX. Insignificant Activities

ID No.	Description	Citation
	Lab. Equipment/process Vents for Routine Chemical or Physical Analysis	[LAC 33:III.501.B.5.A.6]
	Sulfuric Acid Storage Tanks with Negligible H ₂ SO ₄ Emissions	[LAC 33:III.501.B.5.D]
	Storage and Use of Water-Treating Chemicals	[LAC 33:III.501.B.5.B.8]
	Empty Drums and Equipment with Negligible Emissions	[LAC 33:III.501.B.5.D]
	Day Tanks/Chemical Injection Tanks	[LAC 33:III.501.B.5.A.3]
	Caustic Storage Tanks	[LAC 33:III.501.B.5.B.40]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B
AGENCY INTEREST NO. 2538
CONOCOPHILLIPS COMPANY
WESTLAKE, CALCASIEU PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	LAC 33:III:Chapter																	
		5▲	9	11	13	15	2103	2104*	2109	2111	2113	2141	2122	22	29*	51*	53*	56	59*
GRP023	Lake Charles Refinery – Area B	1	1	1	1									1	1			1	1
ARE012	EP-82 - Fugitive VOC - Wastewater								1									1	
EQT070	B-6 - High Pressure Boiler	1	1	1	1														
EQT071	EP-132 - Refinery Sulfur Loading (Rail/Truck)																	1	
EQT072	B-5 - High Pressure Boiler	1	1	1	1														
EQT073	T-136 - VFR Tank																	1	
EQT074	T-137 - VFR Tank																	1	
EQT075	T-138 - VFR Tank																	1	
EQT076	T-139 - VFR Tank																	1	
EQT077	T-140 - VFR Tank																	1	
EQT078	T-141 - VFR Tank																	1	
EQT079	T-142 - VFR Tank																	1	
EQT080	EP-31 - South Flare								1	1	1							1	
EQT081	T-104 - External Floating Roof Tank																	3	
EQT082	T-120 - External Floating Roof Tank																	3	
EQT083	T-133 - External Floating Roof Tank (WWTS - Equalization Tank)																	3	
EQT084	T-6019 - External Floating Roof Tank (WWTS - Equalization Tank)																	3	
EQT085	H-2801 - Sulfuric Acid Air Heater																		
EQT086	H-6 - FCCU Feed Heater	1	1	1	1														
EQT087	T-74 - Cone Roof Tank (WWTS - Surface Water Diversion Tank)																		
EQT092	T-6005 - Cone Roof Tank Vented to API/CPI Flare																	1	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B
AGENCY INTEREST NO. 2538
CONOCOPHILLIPS COMPANY
WESTLAKE, CALCASIEU PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	LAC 33:III.Chapter																	
		5▲	9	11	13	15	2103	2104*	2109	2111	2113	2141	2122	22	29*	51*	53*	56	59*
EQT093	T-6006 - Cone Roof Vented to API/CPI Flare						1												1
EQT094	T-6012 - Open Top Tank (WWTS - Effluent Surge Tank)																		
EQT095	T-6009 - Open Top Tank (Activated Sludge Unit)						3								1				
EQT096	T-6010 - Open Top Tank (Activated Sludge Unit)						3								1				
EQT097	T-6015 - Open Top Tank (WWTS - Sludge Thickener)																		
EQT098	T-6020 - Open Top Tank (Clarifier Splitter Tank)																		
EQT099	CL-4 - Open Top Tank (Clarifier)																		
EQT100	CL-5 - Open Top Tank (Clarifier)																		
EQT101	T-6011 - Open Top Tank (Skimmings)																		
EQT102	T-6018 - Open Top Tank (Tertiary DAF Flocculation Tank)																		
EQT103	T-6021 - Open Top Tank (Tertiary DAF)																		
EQT104	FL-101 - API/CPI Flare						1	1	1										1
EQT105	H-14 - Thermal Cracker Heater						1	1	1										
EQT106	H-30001 - No. 2 CTU Heater						1	1	1										
EQT108	T-3505 - Cone Roof Vented to API/CPI Flare									1					1				
EQT109	EP 42 - Sulfuric Acid Unit									1						1			
EQT111	T-3086 - Slurry Day Tank									1						1			

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

**LAKE CHARLES REFINERY – AREA B
AGENCY INTEREST NO. 2538
CONOCOPHILLIPS COMPANY
WESTLAKE, CALCASIEU PARISH, LOUISIANA**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	LAC 33:III:Chapter																	
		5▲	9	11	13	15	2103	2104*	2109	2111	2113	2141	2122	22	29*	51*	53*	56	59*
EQT519	TK-10863 - FCCU Aqueous Ammonia Tank																	1	
FUG008	EP-149 - Area B Drain, Sumps, and Junction Box Fugitives																	1	
FUG009	EP-245 - Area B Process Fugitives																	1	
RLP057	EP-41 - FCCU Regenerator	1																1	
RLP058	EP-56 - No. 1/No. 2 SRU Stack	1																1	

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.C.6 citations, except when the requirement found in the “Specific Requirements” report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B
AGENCY INTEREST NO. 2538
CONOCOPHILLIPS COMPANY
WESTLAKE, CALCASIEU PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR		
		A	H	J	Ka	Kb	GGG	QQQ	A	M	FF	A	F	CC	UUU	EEE	DDDDD	68	82	1	1	
GRP023	Lake Charles Refinery – Area B	1							1	1	1	1						1				
ARE012	EP-82 - Fugitive VOC - Wastewater							1		1												
EQT070	B-6 - High Pressure Boiler	1																				1
EQT071	EP-132 - Refinery Sulfur Loading (Rail/Truck)																					
EQT072	B-5 - High Pressure Boiler	1																				1
EQT073	T-136 - VFR Tank																					
EQT074	T-137 - VFR Tank																					
EQT075	T-138 - VFR Tank																					
EQT076	T-139 - VFR Tank																					
EQT077	T-140 - VFR Tank																					
EQT078	T-141 - VFR Tank																					
EQT079	T-142 - VFR Tank																					
EQT080	EP-31 - South Flare	1		1												1		1				
EQT081	T-104 - External Floating Roof Tank								3							1		2				
EQT082	T-120 - External Floating Roof Tank								3							1		2				
EQT083	T-133 - External Floating Roof Tank (WWTS – Equalization Tank)								3							1		2				
EQT084	T-6019 - External Floating Roof Tank (WWTS – Equalization Tank)								3							1		2				
EQT085	H-2801 - Sulfuric Acid Air Heater																	1				
EQT086	H-6 - FCCU Feed Heater																	1				
EQT087	T-74 - Cone Roof Tank (WWTS - Surface Water Diversion Tank)																					
EQT092	T-6005 - Cone Roof Tank Vented to API/CPI Flare																	2				

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY - AREA B
AGENCY INTEREST NO. 2538
CONOCOPHILLIPS COMPANY
WESTLAKE, CALCASIEU PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHPAP						40 CFR	
		A	H	J	Ka	Kb	GGG	QQQ	A	M	FF	A	F	CC	UUU	EEEE	DDDDD	68	82		
EQT093	T-6006 - Cone Roof Tank Vented to API/CPI Flare																				
EQT094	T-6012 - Open Top Tank (WWTS - Effluent Surge Tank)																				
EQT095	T-6009 - Open Top Tank (Activated Sludge Unit)																				
EQT096	T-6010 - Open Top Tank (Activated Sludge Unit)																				
EQT097	T-6015 - Open Top Tank (WWTS - Sludge Thickener)																				
EQT098	T-6020 - Open Top Tank (Clarifier Splitter Tank)																				
EQT099	CL-4 - Open Top Tank (Clarifier)																				
EQT100	CL-5 - Open Top Tank (Clarifier)																				
EQT101	T-6011 - Open Top Tank (Skimmings)																				
EQT102	T-6018 - Open Top Tank (Tertiary DAF Flocculation Tank)																				
EQT103	T-6021 - Open Top Tank (Tertiary DAF)																				
EQT104	FL-101 - API/CPI Flare	1		1																	
EQT105	H-14 - Thermal Cracker Heater			1														1			
EQT106	H-30001 - No. 2 CTU Heater				1													1			
EQT108	T-3505 - Cone Roof Tank Vented to Carbon Canister																1	1			
EQT109	EP-42 - Sulfuric Acid Unit																				
EQT111	T-3086 - Slurry Day Tank																				

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B
 AGENCY INTEREST NO. 2538
 CONOCOPHILLIPS COMPANY
 WESTLAKE, CALCASIEU PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS								40 CFR 61								40 CFR	
		A	H	J	Ka	Kb	GGG	QQQ	A	M	FF	A	F	CC	UUU	EEE	DDDDD	68	82
EQT519	TK-10863 - FCCU Aqueous Ammonia Tank																		
FUG008	EP-149 - Area B Drain, Sumps, and Junction Box Fugitives								1			1							
FUG009	EP-245 - Area B Process Fugitives								1										
RLP057	EP-41 - FCCU Regenerator													1					
RLP058	EP-56 - No. 1/No. 2 SRU Stack														1				

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
 - The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

LAKE CHARLES REFINERY – AREA B
AGENCY INTEREST NO. 2538
CONOCOPHILLIPS COMPANY
WESTLAKE, CALCASIEU PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
ARE012	NESHAP, Subpart CC [40 CFR 63.640]	Exempt – Group 2 Wastewater stream.
EQT081, EQT082, EQT083, EQT084	Storage of Volatile Organic Compounds [LAC 33:III.2103] NSPS Subpart Kb [40 CFR 60.110b]	Does not Apply – Wastewater Tanks.
EQT092, EQT093	NESHAP, Subpart CC [40 CFR 63.640]	Exempt – Group 2 Wastewater stream.
EQT095, EQT096	NESHAP, Subpart CC [40 CFR 63.640] Storage of Volatile Organic Compounds [LAC 33:III.2103] NSPS Subpart Kb [40 CFR 60.110b] NESHAP, Subpart CC [40 CFR 63.640]	Exempt – Group 2 Wastewater stream. Does not Apply – Wastewater Tanks. Exempt – Group 2 Wastewater stream.

The above table provides explanation for both the exemption status and non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being operated

40 CFR PART 70 GENERAL CONDITIONS

properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
 - 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly

40 CFR PART 70 GENERAL CONDITIONS

deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:

- a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]
- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]
- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
- 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
 - 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
 - 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
 - 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
 - 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
 - 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]
- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air

40 CFR PART 70 GENERAL CONDITIONS

conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire dated January 31, 2007, along with supplemental information dated March 9 and 20, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY

LOUISIANA AIR EMISSION PERMIT GENERAL CONDITIONS

2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
 Activity Number: PER20070004
 Permit Number: 2624-V6
 Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
ARE012	EP-82 - Fugitive VOC - Wastewater					8760 hr/yr (All Year)
EQT070	B-6 - High Pressure Boiler (EP-23)	268 MM BTU/hr	180 MM BTU/hr			8760 hr/yr (All Year)
EQT071	EP-132 - Refinery Sulfur Loading (Rail/Truck)					2000 hr/yr (All Year)
EQT072	B-5 - High Pressure Boiler (EP-22)	207 MM BTU/hr	110 MM BTU/hr			8760 hr/yr (All Year)
EQT073	T-136 - VFR Tank - Carbon Canister Stack (EP-234)	250 bbl	166080 bbl/yr	Stop Oil		8760 hr/yr (All Year)
EQT074	T-137 - VFR Tank - Carbon Canister Stack (EP-235)	250 bbl	166080 bbl/yr	Stop Oil		8760 hr/yr (All Year)
EQT075	T-138 - VFR Tank - Carbon Canister Stack (EP-236)	25 bbl	332020 bbl/yr	Stop Oil		8760 hr/yr (All Year)
EQT076	T-139 - VFR Tank - Carbon Canister Stack (EP-237)	10 bbl	1700 bbl/yr	Stop Oil		8760 hr/yr (All Year)
EQT077	T-140 - VFR Tank - Carbon Canister Stack (EP-238)	10 bbl	330300 bbl/yr	Stop Oil		8760 hr/yr (All Year)
EQT078	T-141 - VFR Tank - Carbon Canister Stack (EP-239)	107 bbl	2150 bbl/yr	Stop Oil		8760 hr/yr (All Year)
EQT079	T-142 - VFR Tank - Carbon Canister Stack (EP-240)	107 bbl	330130 bbl/yr	Stop Oil		8760 hr/yr (All Year)
EQT080	EP-31 - South Flare		112.36 MM BTU/hr	17.23 MM BTU/hr		8760 hr/yr (All Year)
EQT081	T-104 - External Floating Roof Tank (EP-437)	10000 bbl	5.5 MM bbl/yr	Wastewater		8760 hr/yr (All Year)
EQT082	T-120 - External Floating Roof Tank (EP-438)	15000 bbl	4.38 MM bbl/yr	Wastewater		8760 hr/yr (All Year)
EQT083	T-133 - External Floating Roof Tank (WWTS - Equalization Tank, EP-457))	43000 bbl	30.04 MM bbl/yr	wastewater		8760 hr/yr (All Year)
EQT084	T-6019 - External Floating Roof Tank (WWTS - Equalization Tank, EP-462)	50000 bbl	18.02 MM bbl/yr	Wastewater		8760 hr/yr (All Year)
EQT085	H-2801 - Sulfuric Acid Air Heater (EP-47)		5 MM BTU/hr	5 MM BTU/hr		8760 hr/yr (All Year)
EQT086	H-6 - FCCU Feed Heater (EP-6)		67 MM BTU/hr	67 MM BTU/hr		8760 hr/yr (All Year)
EQT087	T-74 - Cone Roof Tank (WWTS - Surface Water Diversions Tank EP-614)	150000 bbl	9.87 MM bbl/yr	Water		8760 hr/yr (All Year)
EQT092	T-6005 - Cone Roof Vented to API/CP1 Flare (EP-667)	150 bbl	132 MM bbl/yr	Wastewater/Oil		8760 hr/yr (All Year)
EQT093	T-6006 - Cone Roof Vented to API/CP1 Flare (EP-668)	150 bbl	132 MM bbl/yr	Wastewater/Oil		8760 hr/yr (All Year)
EQT094	T-6012 - Open Top Tank (WWTS - Effluent Surge Tank, EP-671)	1300 bbl		Wastewater Effluent		8760 hr/yr (All Year)
EQT095	T-6009 - Open Top Tank (Activated Sludge Unit, EP-673)	60240 bbl	15.02 MM bbl/yr	Wastewater		8760 hr/yr (All Year)
EQT096	T-6010 - Open Top Tank (Activated Sludge Unit, EP-674)	60240 bbl	15.02 MM bbl/yr	Wastewater		8760 hr/yr (All Year)
EQT097	T-6015 - Open Top Tank (WWTS - Sludge Thickener, EP-675)	11900 bbl		Water		8760 hr/yr (All Year)
EQT098	T-6020 - Open Top Tank (Clarifier Splitter Tank, EP-676)	2360 bbl		Water		8760 hr/yr (All Year)
EQT099	CL-4 - Open Top Tank (Clarifier, EP-677)	18130 bbl		Water		8760 hr/yr (All Year)
EQT100	CL-5 - Open Top Tank (Clarifier, EP-678)	18130 bbl		Water		8760 hr/yr (All Year)
EQT101	T-6011 - Open Top Tank (Skimmings Tank, EP-679)	295 bbl		Water		8760 hr/yr (All Year)
EQT102	T-6018 - Open Top Tank (Tertiary DAF Flocculation Tank, EP-680)	764 bbl		Wastewater		8760 hr/yr (All Year)
EQT103	T-6021 - Open Top Tank (Tertiary DAF Flocculation Tank, EP-681)	3860 bbl		Water		8760 hr/yr (All Year)
EQT104	FL-101 - API/CP1 Flare (EP-92)		930000 BTU/hr			8760 hr/yr (All Year)
EQT105	H-14 - Thermal Cracker Heater (EP-61)		108 MM BTU/hr			8760 hr/yr (All Year)
EQT106	H-30001 - No. 2 CTU Heater		217 MM BTU/hr			8760 hr/yr (All Year)

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
 Activity Number: PER20070004
 Permit Number: 2624-V6
 Air - Title V Regular Permit Minor Mod

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT107	Pressurized Storage Tanks (D-74, 81-T-52, 57, 58, 1801, 1802, 1803, 1804, 1805, 1806, 1807; PV-143, 144)					8760 hr/yr (All Year)
EQT108	T-3505 - Cone Roof Tank Vented to API/CPI Flare (EP-669)	5000 bbl	1.77 MM bbl/yr	Wastewater/Sludge		8760 hr/yr (All Year)
EQT109	EP-42: Sulfuric Acid Unit		91225 tons/yr	84225 tons/yr		8760 hr/yr (All Year)
EQT110	WW-VRS - Stop Oil Segregation Unit Vapor Recovery System					8760 hr/yr (All Year)
EQT111	T-3086 - Slurry Day Tank	500 bbl	4600 bbl/yr			8760 hr/yr (All Year)
EQT519	TK-AQNH3 - FCCU Aqueous Ammonia Tank	238 bbl				8760 hr/yr (All Year)
FUG008	EP-149 - Area B Drain, Sumps, and Junction Box Fugitives					8760 hr/yr (All Year)
FUG009	EP-245 - Area B Process Fugitives					8760 hr/yr (All Year)
RLP057	EP-41 - FCCU Regenerator		58000 bbl/day	51000 bbl/day		8760 hr/yr (All Year)
RLP058	EP-56 - No. 1/No. 2 SRU Stack		540 long tons/day			8760 hr/yr (All Year)
RLP059	Compressors- Group 2 Process Vents (C-8, 103, 1101, 4102)					8760 hr/yr (All Year)
RLP060	Amine Unit Filter-Group 1 Process Vent (D-1605)					8760 hr/yr (All Year)
RLP061	No. 2 Continuous Sweetening-Group 1 Process Vent (D-1616)					8760 hr/yr (All Year)
RLP062	LVT Reflux Drum-Group 1 Process Vent (D-189)					8760 hr/yr (All Year)
RLP063	No. 2 SWS Sour Water Collection Drum-Group 1 Process Vent (D-1904)					8760 hr/yr (All Year)
RLP064	Flash Distillation Accumulator to Thermal Unit-Group 1 Process Vent (D-22)					8760 hr/yr (All Year)
RLP065	No. 2 Continuous Sweetening Holding Drum-Group 1 Process Vent (D-43)					8760 hr/yr (All Year)
RLP066	Airy Unit Pumps-Group 2 Process Vents (P-125, 599, 600, 723, 724, 730, 732, 1098, 1099, 1361, 1362, 4323, 4324, 4325, 4326, 35, 336, 337)					8760 hr/yr (All Year)
RLP067	CapPoly Unit Tandem Seal Pumps-Group 2 Process Vents (P-174, 1715)					8760 hr/yr (All Year)
RLP068	PBC Unit Tandem Seal Pumps-Group 2 Process Vents (P-21, 49, 456, 562, 563, 737, 760, 761, 762)					8760 hr/yr (All Year)
RLP069	Cryo Unit Tandem Seal Pumps-Group 2 Process Vents (P-4100, 4101, 4115, 4116)					8760 hr/yr (All Year)
RLP070	Product Frac Unit Tandem Seal Pumps-Group 2 Process Vents (P-4401 through 4409)					8760 hr/yr (All Year)
RLP071	CapPoly Unit Tandem Seal Pumps-Groups 2 Process Vents (P-501, 502, 1711, 1716)					8760 hr/yr (All Year)
RLP072	Continuous Purges at Thermal Oxidizer-Group 1 Process Vent (TCL)					8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP023	Lake Charles Refinery - Area B	ARE12 EP-82 Fugitive VOC - Wastewater
GRP023	Lake Charles Refinery - Area B	EQT70 B-6 - High Pressure Boiler (EP-23)
GRP023	Lake Charles Refinery - Area B	EQT71 EP-132 - Refinery Sulfur Loading (Rail/Truck)

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP023	Lake Charles Refinery - Area B	EQT72 B-5 - High Pressure Boiler (EP-22)
GRP023	Lake Charles Refinery - Area B	EQT73 T-136 - VFR Tank - Carbon Canister Stack (EP-234)
GRP023	Lake Charles Refinery - Area B	EQT74 T-137 - VFR Tank - Carbon Canister Stack (EP-235)
GRP023	Lake Charles Refinery - Area B	EQT75 T-138 - VFR Tank - Carbon Canister Stack (EP-236)
GRP023	Lake Charles Refinery - Area B	EQT76 T-139 - VFR Tank - Carbon Canister Stack (EP-237)
GRP023	Lake Charles Refinery - Area B	EQT77 T-140 - VFR Tank - Carbon Canister Stack (EP-238)
GRP023	Lake Charles Refinery - Area B	EQT78 T-141 - VFR Tank - Carbon Canister Stack (EP-239)
GRP023	Lake Charles Refinery - Area B	EQT79 T-142 - VFR Tank - Carbon Canister Stack (EP-240)
GRP023	Lake Charles Refinery - Area B	EQT80 EP-31 - South Flare
GRP023	Lake Charles Refinery - Area B	EQT81 T-104 - External Floating Roof Tank (EP-437)
GRP023	Lake Charles Refinery - Area B	EQT82 T-120 - External Floating Roof Tank (EP-438)
GRP023	Lake Charles Refinery - Area B	EQT83 T-133 - External Floating Roof Tank (WWTS - Equalization Tank, EP-457))
GRP023	Lake Charles Refinery - Area B	EQT84 T-6019 - External Floating Roof Tank (WWTS - Equalization Tank, EP-462)
GRP023	Lake Charles Refinery - Area B	EQT85 H-2801 - Sulfuric Acid Air Heater (EP-47)
GRP023	Lake Charles Refinery - Area B	EQT86 H-6 - FCCU Feed Heater (EP-6)
GRP023	Lake Charles Refinery - Area B	EQT87 T-74 - Cone Roof Tank (WWTS - Surface Water Diversion Tank, EP-614)
GRP023	Lake Charles Refinery - Area B	EQT92 T-6005 - Cone Roof Tank Vented to API/CPI Flare (EP-667)
GRP023	Lake Charles Refinery - Area B	EQT93 T-6006 - Cone Roof Tank Vented to API/CPI Flare (EP-668)
GRP023	Lake Charles Refinery - Area B	EQT94 T-6012 - Open Top Tank (WWTS - Effluent Surge Tank, EP-671)
GRP023	Lake Charles Refinery - Area B	EQT95 T-6009 - Open Top Tank (Activated Sludge Unit, EP-673)
GRP023	Lake Charles Refinery - Area B	EQT96 T-6010 - Open Top Tank (Activated Sludge Unit, EP-674)
GRP023	Lake Charles Refinery - Area B	EQT97 T-6015 - Open Top Tank (WWTS - Sludge Thickener, EP-675)
GRP023	Lake Charles Refinery - Area B	EQT98 T-6020 - Open Top Tank (Clarifier Splitter Tank, EP-676)
GRP023	Lake Charles Refinery - Area B	EQT99 CL-4 - Open Top Tank (Clarifier, EP-677)
GRP023	Lake Charles Refinery - Area B	EQT100 CL-5 - Open Top Tank (Clarifier, EP-678)
GRP023	Lake Charles Refinery - Area B	EQT101 T-6011 - Open Top Tank (Skimmins Tank, EP-679)
GRP023	Lake Charles Refinery - Area B	EQT102 T-6018 - Open Top Tank (Teritary DAF Flocculation Tank, EP-680)
GRP023	Lake Charles Refinery - Area B	EQT103 T-6021 - Open Top Tank (Teritary DAF, EP-681)
GRP023	Lake Charles Refinery - Area B	EQT104 FL-101 - API/CPI Flare (EP-92)
GRP023	Lake Charles Refinery - Area B	EQT105 H-14 - Thermal Cracker Heater (EP-61)
GRP023	Lake Charles Refinery - Area B	EQT106 H-30001 - No. 2 CTU Heater
GRP023	Lake Charles Refinery - Area B	EQT107 Pressurized Storage Tanks (D-74, 81; T-52, 58, 1801, 1802, 1803, 1804, 1805, 1806, 1807, PV-143, 144)
GRP023	Lake Charles Refinery - Area B	EQT108 T-3505 - Cone Roof Tank Vented to API/CPI Flare (EP-659)
GRP023	Lake Charles Refinery - Area B	FUG8 EP-149 - Area B Drain, Sumps, and Junction Box Fugitives
GRP023	Lake Charles Refinery - Area B	FUG9 EP-245 - Area B Process Fugitives
GRP023	Lake Charles Refinery - Area B	RLP57 EP-41 - FCCU Regenerator
GRP023	Lake Charles Refinery - Area B	RLF58 EP-56 - No. 1/No. 2 SRU Stack

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
 Activity Number: PER20070004
 Permit Number: 2624-V6
 Air - Title V Regular Permit Minor Mod

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP023	Lake Charles Refinery - Area B	RLP59 Compressors- Group 2 Process Vents (C-8, 103, 1101, 4102)
GRP023	Lake Charles Refinery - Area B	RLP60 Amine Unit Filter-Group 1 Process Vent (D-1605)
GRP023	Lake Charles Refinery - Area B	RLP61 No. 2 Continuous Sweetening-Group 1 Process Vent (D-1616)
GRP023	Lake Charles Refinery - Area B	RLP62 LVT Reflux Drum-Group 1 Process Vent (D-189)
GRP023	Lake Charles Refinery - Area B	RLP63 No. 2 SWS Sour Water Collection Drum-Group 1 Process Vent (D-1901)
GRP023	Lake Charles Refinery - Area B	RLP64 Flash Distillation Accumulator to Thermal Unit-Group 1 Process Vent (D-22)
GRP023	Lake Charles Refinery - Area B	RLP65 No. 2 Continuous Sweetening Holding Drum-Group 1 Process Vent (D-43)
GRP023	Lake Charles Refinery - Area B	RLP66 Alky Unit Pumps-Group 2 Process Vents (P-125, 599, 600, 723, 724, 730, 732, 1098, 1099, 1361, 1362, 4323, 4324, 4325, 4326, 35, 336, 337)
GRP023	Lake Charles Refinery - Area B	RLP67 CatPoly Unit Tandem Seal Pumps-Group 2 Process Vents (P-1714, 1715)
GRP023	Lake Charles Refinery - Area B	RLP68 PBC Unit Tandem Seal Pumps-Group 2 Process Vents (P-21, 49, 456, 562, 563, 737, 760, 761, 762)
GRP023	Lake Charles Refinery - Area B	RLP69 Cryo Unit Tandem Seal Pumps-Group 2 Process Vents (P-4100, 4101, 4115, 4116)
GRP023	Lake Charles Refinery - Area B	RLP70 Product Frac Unit Tandem Seal Pumps-Group 2 Process Vents (P-4401 through 4409)
GRP023	Lake Charles Refinery - Area B	RLP71 CatPoly Unit Tandem Seal Pumps-Groups 2 Process Vents (P-501, 502, 1711, 1716)
GRP023	Lake Charles Refinery - Area B	RLP72 Continuous Purges at Thermal Oxidizer-Group 1 Process Vent (TCU)

Relationships:

Subject Item	Relationship	Subject Item
EQT80 EP-31 - South Flare	Controls emissions from	RLP59 Compressors- Group 2 Process Vents (C-8, 103, 1101, 4102)
EQT80 EP-31 - South Flare	Controls emissions from	RLP60 Amine Unit Filter-Group 1 Process Vent (D-1605)
EQT80 EP-31 - South Flare	Controls emissions from	RLP61 No. 2 Continuous Sweetening-Group 1 Process Vent (D-1616)
EQT80 EP-31 - South Flare	Controls emissions from	RLP62 LVT Reflux Drum-Group 1 Process Vent (D-189)
EQT80 EP-31 - South Flare	Controls emissions from	RLP63 No. 2 SWS Sour Water Collection Drum-Group 1 Process Vent (D-1901)
EQT80 EP-31 - South Flare	Controls emissions from	RLP64 Flash Distillation Accumulator to Thermal Unit-Group 1 Process Vent (D-22)
EQT80 EP-31 - South Flare	Controls emissions from	RLP65 No. 2 Continuous Sweetening Holding Drum-Group 1 Process Vent (D-43)
EQT80 EP-31 - South Flare	Controls emissions from	RLP66 Alky Unit Pumps-Group 2 Process Vents (P-125, 599, 600, 723, 724, 730, 732, 1098, 1099, 1361, 1362, 4323, 4324, 4325, 4326, 35, 336, 337)
EQT80 EP-31 - South Flare	Controls emissions from	RLP67 CatPoly Unit Tandem Seal Pumps-Group 2 Process Vents (P-1714, 1715)
EQT80 EP-31 - South Flare	Controls emissions from	RLP68 PBC Unit Tandem Seal Pumps-Group 2 Process Vents (P-21, 49, 456, 562, 563, 737, 760, 761, 762)
EQT80 EP-31 - South Flare	Controls emissions from	RLP69 Cryo Unit Tandem Seal Pumps-Group 2 Process Vents (P-4100, 4101, 4115, 4116)
EQT80 EP-31 - South Flare	Controls emissions from	RLP70 Product Frac Unit Tandem Seal Pumps-Group 2 Process Vents (P-4401 through 4409)
EQT80 EP-31 - South Flare	Controls emissions from	RLP71 CatPoly Unit Tandem Seal Pumps-Groups 2 Process Vents (P-501, 502, 1711, 1716)
EQT80 EP-31 - South Flare	Controls emissions from	RLP72 Continuous Purges at Thermal Oxidizer-Group 1 Process Vent (TCU)

INVENTORIES

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
 Activity Number: PER20070004
 Permit Number: 2624-V6
 Air - Title V Regular Permit Minor Mod

Relationships:

Subject Item	Relationship	Subject Item
EQT104 FL-101 - API/CPI Flare (EP-92)	Controls emissions from	EQT192 T-6005 - Cone Roof Tank Vented to API/CPI Flare (EP-667)
EQT104 FL-101 - API/CPI Flare (EP-92)	Controls emissions from	EQT193 T-6006 - Cone Roof Tank Vented to API/CPI Flare (EP-668)
EQT104 FL-101 - API/CPI Flare (EP-92)	Controls emissions from	EQT108 T-3505 - Cone Roof Tank Vented to API/CPI Flare (EP-669)
EQT110 WW-VRS - Slop Oil Segregation Unit Vapor Recovery System	Controls emissions from	EQT73 T-136 - VFR Tank - Carbon Canister Stack (EP-234)
EQT110 WW-VRS - Slop Oil Segregation Unit Vapor Recovery System	Controls emissions from	EQT74 T-137 - VFR Tank - Carbon Canister Stack (EP-235)
EQT110 WW-VRS - Slop Oil Segregation Unit Vapor Recovery System	Controls emissions from	EQT75 T-138 - VFR Tank - Carbon Canister Stack (EP-236)
EQT110 WW-VRS - Slop Oil Segregation Unit Vapor Recovery System	Controls emissions from	EQT76 T-139 - VFR Tank - Carbon Canister Stack (EP-237)
EQT110 WW-VRS - Slop Oil Segregation Unit Vapor Recovery System	Controls emissions from	EQT77 T-140 - VFR Tank - Carbon Canister Stack (EP-238)
EQT110 WW-VRS - Slop Oil Segregation Unit Vapor Recovery System	Controls emissions from	EQT78 T-141 - VFR Tank - Carbon Canister Stack (EP-239)
EQT110 WW-VRS - Slop Oil Segregation Unit Vapor Recovery System	Controls emissions from	EQT79 T-142 - VFR Tank - Carbon Canister Stack (EP-240)

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT070 B-6 - High Pressure Boiler (EP-23)	59	99750	6		56	475
EQT072 B-5 - High Pressure Boiler (EP-22)	54	77100	5.5		50	475
EQT080 EP-31 - South Flare	81.8	47214	3.5		250	1340
EQT085 H-2801 - Sulfuric Acid Air Heater (EP-47)	6	2500	3		77	800
EQT086 H-6 - FCCU Feed Heater (EP-6)	20	33300	6		114	800
EQT104 FL-101 - API/CPI Flare (EP-92)	60	707	.5		45	1832
EQT105 H-14 - Thermal Cracker Heater (EP-61)	11.2	31900	7.8		113	300
EQT106 H-30001 - No. 2 CTU Heater	17.3	53835	8.5		171	364
EQT109 EP-42: Sulfuric Acid Unit	17	12500	4		150	170
RLP057 EP-41 - FCCU Regenerator	133	225515	6		185	605
RLP058 EP-56 - No. 1/No. 2 SRU Stack	21.6	30744	5.5		200	480

Fee Information:

Sub Item Id	Multiplier	Units Of Measure	Fee Desc
GRP023	270	1,000 BBL/Day	0720 - Petroleum Refining (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

PM ₁₀										SO ₂										NOx										CO										VOC									
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year																
ARE 012 EP-82	1.34	2.00	5.87	1.20	7.22	5.24	10.80	16.08	47.30	7.20	16.08	15.77	0.32	0.48	0.02	0.02	0.07	0.07	0.07	0.07	< .01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <	.01 <										
EQT 070 B-6																																																	
EQT 071 EP-132																																																	
EQT 072 B-5																																																	
EQT 080 EP-31	< .01 <	.01 <	.01	.01	20.83	500.00	91.25	1.17	7.64	5.13	6.38	41.57	27.93	2.41	15.73	10.57																																	
EQT 081 T-104																																																	
EQT 082 T-120																																																	
EQT 083 T-133																																																	
EQT 084 T-6019																																																	
EQT 085 H-2801	0.04	0.04	0.16	0.03	0.14	0.15	0.49	0.49	2.15	0.1	0.1	0.1	0.44	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01															
EQT 086 H-6	0.50	0.50	2.19	0.45	1.81	1.95	6.57	6.57	28.76	1.34	1.34	5.87	0.12	0.12	0.12	0.12	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53	0.53													
EQT 087 T-74																																																	
EQT 092 T-8005																																																	
EQT 093 T-8006																																																	
EQT 094 T-8012																																																	
EQT 095 T-8009																																																	
EQT 096 T-8010																																																	
EQT 097 T-8015																																																	

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 098 T-6020													<	.01	.01
EQT 099 CL-4													<	.01	.01
EQT 100 CL-5													<	.01	.01
EQT 101 T-6011													<	.01	.01
EQT 102 T-6018													<	.01	.01
EQT 103 T-6021													<	.01	.01
EQT 104 FL-101	<	.01	<	.01	.03	.021	0.11	0.18	1.51	0.77	0.96	8.22	4.21	0.36	3.11
EQT 105 H-14	0.67	0.81	2.94	0.60	2.91	2.62	2.88	3.46	12.61	3.60	6.48	15.77	0.16	0.19	0.71
EQT 106 H-30001	1.48	1.62	6.49	1.55	6.83	6.78	5.97	6.51	26.15	7.96	13.02	34.86	0.36	0.39	1.57
EQT 108 T-3505														0.25	0.89
EQT 109 EP-42	1.44	1.56	6.32	38.46	41.66	168.45									
EQT 110 WW-VRS													0.53	0.53	2.32
EQT 111 T-3086													<	0.01	< 0.01
FUG 008 EP-149													22.15	22.15	97.04
FUG 009 EP-245													38.83	38.83	170.09
RLP 057 EP-41	12.98	14.77	56.87	275.76	313.65	1207.83	113.92	129.58	498.98	62.55	208.51	273.98			
RLP 058 EP-56	2.70	3.70	11.80	35.80	35.80	157.00	5.40	7.30	23.40	110.10	110.10	482.00	0.10	0.10	0.30

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Permit Phase Totals:

PM10: 96.23 tons/yr

SO2: 1644.58 tons/yr

NOx: 698.25 tons/yr

CO: 870.47 tons/yr

VOC: 299.05 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	1,1,1-Trichloroethane			1,3-Butadiene			2,2,4-Trimethylpentane			Acetonitrile			Ammonia		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 012							< .001	< .001	< .01						
EP-82															
EQT 070															
B-6															
EQT 071															
EQT 072															
B-5															
EQT 080	0.005	0.033		0.02	0.005		0.033	0.02		0.005	0.005		0.02		
EP-31															
EQT 081							0.002	0.003	< .01						
T-104															
EQT 082							0.001	0.002	< .01						
T-120															
EQT 083								0.004	0.01	0.02					
T-133															
EQT 084								0.003	0.01	0.01					
T-8019															
EQT 085															
H-2801															
EQT 086															
H-6															
EQT 092							< .001	0.01	< .01						
T-8005															
EQT 093							< .001	0.01	< .01						
T-8006															
EQT 095							< .001	0.01	< .01						
T-8009															
EQT 096							< .001	0.01	< .01						
T-8010															
EQT 102							< .001	0.01	< .01						
T-8018															
EQT 104	0.001	0.005	< .01	< .001	0.001	< .01							< .001	< .001	< .01
FL-101															
EQT 105															
H-14															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER2007004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	Aniline			Arsenic (and compounds)			Benzene			Biphenyl			Carbon disulfide		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 012 EP-92	< .001	< .001	.01	< .001	< .001	< .001	< .001	< .001	< .001	< .01	< .001	< .001	< .01	< .001	< .01
EQT 070 B-6															
EQT 071 EP-132															
EQT 072 B-5															
EQT 080 EP-31							0.007	0.047	0.03						
EQT 081 T-104	< .001	< .001	.01				0.005	0.01	0.002	< .001	< .01		0.002	0.002	< .01
EQT 082 T-120	< .001	< .001	.01				0.003	0.01	0.002	< .001	< .01		0.001	0.002	< .01
EQT 083 T-133	< .001	< .001	.01				0.01	0.02	0.05	< .001	< .01		0.004	0.004	0.02
EQT 084 T-6019	< .001	< .001	.01				0.01	0.02	0.04	< .001	< .01		0.003	0.003	0.01
EQT 085 H-2901															
EQT 086 H-6															
EQT 092 T-6005	< .001	< .001	.01				< .001	0.03	.01	< .001	< .01		.001	.001	.01
EQT 093 T-6006	< .001	< .001	.01				< .001	0.025	.01	< .001	< .01		.001	.009	.01
EQT 095 T-6009	< .001	< .001	.01				< .001	< .001	.01	< .001	< .01		.004	.004	.02
EQT 096 T-6010	< .001	< .001	.01				< .001	< .001	.01	< .001	< .01		.004	.004	.02
EQT 102 T-6018	< .001	< .001	.01				< .001	< .001	.01	< .001	< .01		.001	.001	.01
EQT 104 EL-101							0.001	0.01	.01	< .001	< .01		.001	.001	
EQT 105 H-14															

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AIID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Chlorine		Cumene		Diethanolamine		Ethyl benzene		Hydrogen sulfide	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 012 EP-82	< .001	< .001	< .01	< .001	< .001	< .01	< .001	< .001	< .01
EQT 070 B-6									
EQT 071 EP-132									
EQT 072 B-5									
EQT 080 EP-31	< .001	< .001	< .01	< .001	< .001	< .01	< .001	< .001	< .01
EQT 081 T-104	< .001	< .001	< .01	< .001	< .001	< .01	< .001	< .001	< .01
EQT 082 T-120	< .001	< .001	< .01	< .001	< .001	< .01	< .001	< .001	< .01
EQT 083 T-133	< .001	< .001	< .01	< .001	< .001	< .01	< .001	< .001	< .01
EQT 084 T-619	< .001	< .001	< .01	< .001	< .001	< .01	< .001	< .001	< .01
EQT 085 H-2801									
EQT 086 H-6									
EQT 092 T-6005	< .001	< .001	< .01	< .001	< .001	< .01	< .002	< .002	< .01
EQT 093 T-6006	< .001	< .001	< .01	< .001	< .001	< .01	< .002	< .002	< .01
EQT 095 T-6009	< .001	< .001	< .01	< .001	< .001	< .01	< .001	< .001	< .01
EQT 096 T-6010	< .001	< .001	< .01	< .001	< .001	< .01	< .001	< .001	< .01
EQT 102 T-6018	< .001	< .001	< .01	< .001	< .001	< .01	< .001	< .001	< .01
EQT 104 FL-101	< .001	< .001	< .01				0.001	0.001	
EQT 105 H-14									

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Lead compounds		Methanol		Naphthalene		Nickel (and compounds)		Phenol	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 012 EP-82				<	.001	<	.01		< .001
EQT 070 B-6									< .001
EQT 071 EP-132									.01
EQT 072 B-5									
EQT 080 EP-31									
EQT 081 T-104	0.001	0.001	<	.01	<	.001	<	.01	< .001
EQT 082 T-120	<	.001	0.001	<	.01	<	.001	<	.01
EQT 083 T-133	0.001	0.002	<	.01	<	.001	<	.01	< .001
EQT 084 T-6019	0.001	0.002	<	.01	<	.001	<	.01	< .001
EQT 085 H-2801									
EQT 086 H-6									
EQT 092 T-6005	<	.001	0.003	<	.01	<	.001	<	.01
EQT 093 T-6006	<	.001	0.003	<	.01	<	.001	<	.01
EQT 095 T-6008									
EQT 096 T-6010									
EQT 102 T-6018									
EQT 104 FL-101									
EQT 105 H-14									

TPOR0146

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	Polynuclear Aromatic Hydrocarbons			Pyridine			Quinoline			Selenium (and compounds)			Styrene	
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
ARE 012 EP-32	< .001	< .001	< .001	< .001	< .001	< .001	< .01	< .01	< .001	< .001	< .01	< .001	< .001	< .001
EQT 070 B-6														
EQT 071 EP-332														
EQT 072 B-5														
EQT 080 EP-31														
EQT 081 T-104	< .001	< .001	< .001	< .001	< .001	< .001	< .01	< .01	< .001	< .001	< .01	< .001	< .001	< .001
EQT 082 T-120	< .001	< .001	< .001	< .001	< .001	< .001	< .01	< .01	< .001	< .001	< .01	< .001	< .001	< .001
EQT 083 T-133	< .001	< .001	< .001	< .001	< .001	< .001	< .01	< .01	< .001	< .001	< .01	< .001	< .001	< .001
EQT 084 T-5019	< .001	< .001	< .001	< .001	< .001	< .001	< .01	< .01	< .001	< .001	< .01	< .001	< .001	< .001
EQT 085 H-2801														
EQT 086 H-6														
EQT 092 T-8005	< .001	< .001	< .001	< .001	< .001	< .001	< .01	< .01	< .001	< .001	< .01	< .001	< .001	< .001
EQT 093 T-8006	< .001	< .001	< .001	< .001	< .001	< .001	< .01	< .01	< .001	< .001	< .01	< .001	< .001	< .001
EQT 095 T-8009	< .001	< .001	< .001	< .001	< .001	< .001	< .01	< .01	< .001	< .001	< .01	< .001	< .001	< .001
EQT 096 T-8010	< .001	< .001	< .001	< .001	< .001	< .001	< .01	< .01	< .001	< .001	< .01	< .001	< .001	< .001
EQT 102 T-6018	< .001	< .001	< .001	< .001	< .001	< .001	< .01	< .01	< .001	< .001	< .01	< .001	< .001	< .001
EQT 104 FL-101														
EQT 105 H-14														

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	Sulfuric acid			Toluene			Vinyl acetate			Xylene (mixed isomers)			n-Hexane			
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
ARE 012 EP-82	<	.001	<	.001	<	.001	.01	<	.001	.01	<	.001	<	.01	<	.001
EQT 070 B-6	0.02	0.11	0.08													
EQT 071 EP-132																
EQT 072 B-5	0.01	0.09	0.05													
EQT 080 EP-31				0.01	0.03	0.02									0.03	0.22
EQT 081 T-104	<	.001	<	.01	0.004	0.01	0.02	<	.001	0.001	<	.0002	<	.01	0.01	0.04
EQT 082 T-120	<	.001	<	.01	0.003	0.005	0.01	<	.001	0.001	<	.0001	<	.01	0.01	0.03
EQT 083 T-133	<	.001	<	.01	0.01	0.04	0.04	0.001	0.002	<	.01	0.003	0.004	0.01	0.02	0.11
EQT 084 T-6019	<	.001	<	.01	0.01	0.01	0.01	0.03	0.001	0.002	<	.01	0.002	0.004	<	.01
EQT 085 H-2601	0.001	0.002	<	.01												
EQT 086 H-6	0.01	0.03	0.03													
EQT 092 T-6005	<	.001	<	.01	<	.001	0.02	<	.001	0.003	<	.01	<	.001	.001	.006
EQT 093 T-6006	<	.001	<	.01	<	.001	0.021	<	.01	0.003	<	.01	<	.001	.001	.006
EQT 095 T-6009	<	.001	<	.01	<	.001	0.021	<	.01	0.001	<	.001	<	.01	.001	.001
EQT 096 T-6010	<	.001	<	.001	<	.001	0.01	<	.001	0.001	<	.001	<	.01	.001	.001
EQT 102 T-6018	<	.001	<	.01	<	.001	0.02	<	.001	0.001	<	.001	<	.01	<	.001
EQT 104 FL-101	<	.001	<	.001	0.002	0.002	0.02	0.01	<	.001	<	.0002	0.02	0.01	0.002	.002
EQT 105 H-14	0.01	0.045	0.041													

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

para-Phenylenediamine				
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	
ARE 012 EP-82	< .001	< .001	< .01	
EQT 070 B-6				
EQT 071 EP-132				
EQT 072 B-5				
EQT 080 EP-31				
EQT 081 T-104	< .001	< .001	< .01	
EQT 082 T-120	< .001	< .001	< .01	
EQT 083 T-133	< .001	< .001	< .01	
EQT 084 T-6019	< .001	< .001	< .01	
EQT 085 H-2801				
EQT 086 H-6				
EQT 092 T-6005	< .001	< .001	< .01	
EQT 093 T-6006	< .001	< .001	< .01	
EQT 095 T-6009	< .001	< .001	< .01	
EQT 096 T-6010	< .001	< .001	< .01	
EQT 102 T-6018	< .001	< .001	< .01	
EQT 104 FL-101	< .001	< .001	< .01	
EQT 105 H-14				

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AJ ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

1,1,1-Trichloroethane			1,3-Butadiene			2,2,4-Trimethylpentane			Acetonitrile			Ammonia		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
EQT 106 H-30001														
EQT 108 T-3505				<	.001	.002	<	.01	<	.001	<	.01		
EQT 109 EP-42														
EQT 110 www-vrs	0.002	0.002	.01	0.004	0.004	.004	0.02	<	.001	<	.001	<	.01	
EQT 519 TKAQNH3													0.05	0.07
FUG 008 EP-149							0.18	0.18	0.81					0.20
FUG 009 EP-245				0.02	0.02	0.10	0.14	0.14	0.60	<	.001	<	.01	0.01
RLP 057 EP-41													30	30
														131.40

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Aniline		Arsenic (and compounds)			Benzene			Biphenyl			Carbon disulfide		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 106 H-30001													
EQT 108 T-305					<	.001	<	.001	<	.01	<	.01	
EQT 109 EP-42													
EQT 110 www-VRS	<	.001	<	.001	<	.01		0.01	0.05	<	.001	<	
EQT 519 TK-SONH3													
FUG 008 EP-149	0.02	0.02	.10	<	.001	<	.01	0.24	0.24	1.06	.04	.17	
FUG 009 EP-245	0.003	0.003	0.01	<	.001	<	.01	0.07	0.07	0.31	0.03	0.14	
RLP 057 EP-41													

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Chlorine										Cumene										Diethanolamine										Ethyl benzene										Hydrogen sulfide									
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year																															
EQT 106 H-30001	<	.001	<	.001	<	.01							v																																				
EQT 108 T-3505																																																	
EQT 109 EP-42																																																	
EQT 110 WW-VRS	<	.001	<	.001	<	.01	<	.001	<	.01	<	.001	<	.001	<	.001	<	.001	<	.01	<	.001	<	.001	<	.001	<	.001	<	.001	<	.001	<	.01															
EQT 519 TK-AQNH3																																																	
FUG 008 EP-149				0.03	0.03	0.14	0.02	0.02	.10	0.20	0.20	.20																																					
FUG 009 EP-245	0.07	0.07	0.29	0.01	0.01	0.03	0.001	0.001	.01	0.05	0.05	0.24																																					
RLP 057 EP-41																																																	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Lead compounds				Methanol				Naphthalene				Nickel (and compounds)				Phenol			
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 106 H-30001																			
EQT 108 T-3505							0.02	0.08	0.10										
EQT 109 EP-42																			
EQT 110 www-VRS							0.05	0.05	0.22				<	.001	<	.001	<	.01	
EQT 519 TK-&ONH3																			
FUG 008 EP-149	< .001	< .001	< .01				0.24	0.24	1.05						0.02	0.02		.10	
FUG 009 EP-245	< .001	< .001	< .01				0.10	0.10	0.43	< .001	< .001	< .01			0.004	0.004		0.02	
RLP 057 EP-41																			

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Polynuclear Aromatic Hydrocarbons			Pyridine			Quinoline			Selenium (and compounds)			Styrene		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr
EQT 106 H-30001	< .001	< .001	< .01											
EQT 108 T-3505	< .001	< .001	< .01							< .001	< .001	< .001	< .001	< .01
EQT 109 EP-42														
EQT 110 WW-VRS	< 0.001	< 0.001	< 0.01	< .001	< .001	< .01	< .001	< .001	< .01				< .001	< .001
EQT 519 TK-AQNH3														
FUG 008 EP-149	0.18	0.18	0.79	0.02	0.02	0.10	0.02	0.02	.10	< .001	< .001	< .01		
FUG 009 EP-245	0.01	0.01	0.05	0.003	0.003	0.01	0.003	0.003	0.01	< .001	< .001	< .01	< .001	< .01
RLP 057 EP-41														

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Subject Item	Sulfuric acid			Toluene			Vinyl acetate			Xylene (mixed isomers)			n-Hexane		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 106 H-30001	0.02	0.11	0.10	<	.001	<	.01								
EQT 108 T-3505															
EQT 109 EP-42	1.44	1.56	6.32												
EQT 110 WW-VRS				0.01	0.01	0.04	.001	0.001	<	.01	0.003	0.003	.01	0.02	0.02
EQT 519 TK-AGRH3															0.11
FUG 008 EP-149	<	.001	<	.01	.69	.69	3.00	0.02	0.02	.10	.75	.75	3.27	0.34	.34
FUG 009 EP-245	0.65	0.65	2.84	0.17	0.17	0.73	0.73	0.003	0.003	0.01	0.23	0.23	1.03	0.28	1.24
RLP 057 EP-41	11.281	12.831	49.409												

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

para-Phenylenediamine				
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	
EQT 106 H-30001				
EQT 108 T-3505				
EQT 109 EP-42				
EQT 110 ww-vrs	< .001	< .001	< .01	
EQT 519 TK-AQNH3				
FUG 008 EP-149	0.02	0.02	0.10	
FUG 009 EP-245	0.004	0.004	0.02	
RIP 057 EP-41				

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

1,1,1-Trichloroethane: <0.01 tons/yr
 1,3-Butadiene: 0.13 tons/yr
 2,2,4-Trimethylpentane: 1.50 tons/yr
 Acetonitrile: <0.01 tons/yr
 Ammonia: 131.64 tons/yr
 Aniline: 0.11 tons/yr
 Arsenic (and compounds): <0.01 tons/yr
 Benzene: 1.57 tons/yr
 Biphenyl: 0.31 tons/yr
 Carbon disulfide: 0.19 tons/yr
 Chlorine: 0.29 tons/yr
 Cumene: 0.18 tons/yr
 Diethanolamine: 0.10 tons/yr
 Ethyl benzene: 1.14 tons/yr

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

All phases

Hydrogen sulfide: 2.47 tons/yr
Lead compounds: <0.01 tons/yr
Methanol: 0.02 tons/yr
n-Hexane: 3.23 tons/yr
Naphthalene: 1.75 tons/yr
Nickel (and compounds): <0.01 tons/yr
para-Phenylenediamine: 0.12 tons/yr
Phenol: 0.12 tons/yr
Polynuclear Aromatic Hydrocarbons: 0.84 tons/yr
Pyridine: 0.12 tons/yr
Quinoline: 0.11 tons/yr
Selenium (and compounds): <0.01 tons/yr
Styrene: <0.01 tons/yr
Sulfuric acid: 58.88 tons/yr
Toluene: 3.89 tons/yr
Vinyl acetate: 0.14 tons/yr
Xylene (mixed isomers): 4.35 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

ARE012 EP-82 - Fugitive VOC - Wastewater

- 1 Equip with a container having all openings sealed and totally enclosed liquid contents. All gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2109.A.1]
- 2 Equip with a container furnished with a floating roof. Floating roof shall consist of a pontoon type, double deck type roof, or internal floating cover which rests or floats on the surface of the contents and is equipped with a closure seal or seals to close the space between the roof edge and container wall. All gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2109.A.2]
- 3 Equip with a container furnished with a vapor dispersion system capable of processing organic vapors and gases so as to limit their emission to the atmosphere to the same extent as LAC 33:III.2109.A.1 and 2. All gauging and sampling devices will be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2109.A.3]
- 4 Determine compliance with LAC 33:III.2109.A using monthly visual inspections or one of the test methods in LAC 33:III.2109.C.1-6, where appropriate. [LAC 33:III.2109.C]
- 5 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2109.D.1 and 3. [LAC 33:III.2109.D]
- 6 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]
- 7 Comply with the requirements of 40 CFR 60.692-2 and 60.692-3. Subpart QQQ. [40 CFR 60.692-4]
- 8 Before using any equipment installed in compliance with 40 CFR 60.692-2, 60.692-3, 60.692-4, 60.692-5, or 60.693, inspect such equipment for indication of potential emissions, defects, or other problems that may cause requirements of 40 CFR 60 Subpart QQQ not to be met. Subpart QQQ. [40 CFR 60.696(a)]
- 9 Retain all records required by 40 CFR 60 Subpart QQQ for a period of 2 years after being recorded unless otherwise noted. Subpart QQQ. [40 CFR 60.697(a)]
- 10 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(e)(1) through (e)(4), as applicable. Subpart QQQ. [40 CFR 60.697(e)]
- 11 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 60.697(f)(1) through (f)(3) for the life of the source in a readily accessible location. Subpart QQQ. [40 CFR 60.697(f)]
- 12 Submit Notification: Due within 60 days after initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 60 Subpart QQQ has been installed and that the required initial inspections or tests of process drains, sewer lines, junction boxes, oil-water separators, and closed vent systems and control devices have been carried out in accordance with 40 CFR 60 Subpart QQQ. Subpart QQQ. [40 CFR 60.698(b)(1)]
- 13 Submit report: Due initially and semiannually thereafter. Submit a report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken. Subpart QQQ. [40 CFR 60.698(c)]
- 14 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
- 15 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

EQT070 B-6 - High Pressure Boiler (EP-23)

- 16 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 17 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT070 B-6 - High Pressure Boiler (EP-23)

- 18 To ensure compliance with the CO and NOx emission limits, the O₂, CO, and NOx continuous emission monitoring systems (CEMS) shall be installed and maintained on the Boiler B-6. [LAC 33:III.501.C.6]
- 19 Carbon monoxide <= 0.06 lb/MMBTU per Consent Decree lodged December 20, 2001, Civil Action No. H-01-4430. [LAC 33:III.501.C.6]
- 20 Which Months: All Year Statistical Basis: 24-hour average
- 21 Carbon monoxide <= 0.04 lb/MMBTU (365-day rolling average) per Consent Decree lodged December 20, 2001, Civil Action No. H-01-4430. [LAC 33:III.501.C.6]
- 22 Which Months: All Year Statistical Basis: None specified
- 23 Nitrogen oxides <= 0.06 lb/MMBTU per Consent Decree lodged December 20, 2001, Civil Action No. H-01-4430. [LAC 33:III.501.C.6]
- 24 Shall burn refinery fuel gas, hydrogen, or sweet natural gas only. The refinery fuel gas shall not exceed 0.1 grain of H₂S per dry standard cubic foot. PSD-LA-584 (M-4). [LAC 33:III.509]
- 25 Opacity shall not exceed 10%. PSD-LA-533 (M-3). [LAC 33:III.509]
- 26 Comply with NSPS Subpart J. [LAC 33:III.Chapter 15]
- 27 Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
- 28 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
- 29 Which Months: All Year Statistical Basis: Three-hour rolling average
- 30 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 31 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- 32 Which Months: All Year Statistical Basis: None specified
- 33 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 34 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 35 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

EQT071 EP-1.32 - Refinery Sulfur Loading (Rail/Truck)

- 31 Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

EQT072 B-5 - High Pressure Boiler (EP-22)

- 32 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
- 33 Which Months: All Year Statistical Basis: None specified
- 34 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- 35 Which Months: All Year Statistical Basis: None specified
- 36 To ensure compliance with permitted emission limits, permittee shall conduct performance test for NOX and CO emissions from this boiler using test methods and procedures from New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E-Determination of Nitrogen Oxides Emissions from Stationary Sources, and Method 10-Determination of Carbon Monoxide emissions from Stationary Sources.
- (Note: Stack tests on the Boiler B-5 were already conducted in March 2003.). [LAC 33:III.501.C.6]
- 37 Opacity shall not exceed 10%. PSD-LA-533 (M-3). [LAC 33:III.509]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT072 B-5 - High Pressure Boiler (EP-22)

- 36 Shall continuously monitor and record flue gas oxygen concentrations in accordance with "Use of Gas Oxygen Monitors as BACT for Combustion Controls" given in Appendix A. PSD-LA-533 (M-3). [LAC 33:III.509]
- 37 The heat input to this boiler is limited to 963,600 MM BTU per year. To ensure compliance with this limit, the permittee shall record operating hours of and heat input rate (or fuel input rate) to the boiler. The heat input to the boiler shall be calculated based on the operating hours and heater input rate and shall be recorded each month. The calculated heat input for last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total heat input to the boiler over the annual maximum (963,600 MM BTU/year) for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing monthly heat input to the boiler for the preceding calendar year shall be submitted to Office of Environmental Compliance, Enforcement Division by March 31. [PSD-LA-699]. [LAC 33:III.509]
- 38 Shall burn refinery fuel gas, hydrogen, or sweet natural gas only. The refinery fuel gas shall not exceed 0.1 grain of H₂S per dry standard cubic foot. PSD-LA-584 (M-4). [LAC 33:III.509]
- 39 Comply with NSPS Subpart J. [LAC 33:III.Chapter 15]
- 40 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average
- 41 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified
- 42 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 43 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 44 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

EQT073 T-136 - VFR Tank - Carbon Canister Stack (EP-234)

- 45 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 46 VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
Which Months: All Year Statistical Basis: None specified
- 47 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
48 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]

EQT074 T-137 - VFR Tank - Carbon Canister Stack (EP-235)

- 49 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 50 VOC, Total >= 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT074 T-137 - VFR Tank - Carbon Canister Stack (EP-235)

- 51 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I.]
- 52 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]

EQT075 T-138 - VFR Tank - Carbon Canister Stack (EP-236)

- 53 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 54 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
 - Which Months: All Year Statistical Basis: None specified
- 55 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 56 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]

EQT076 T-139 - VFR Tank - Carbon Canister Stack (EP-237)

- 57 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 58 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
 - Which Months: All Year Statistical Basis: None specified
- 59 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 60 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]

EQT077 T-140 - VFR Tank - Carbon Canister Stack (EP-238)

- 61 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 62 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
 - Which Months: All Year Statistical Basis: None specified
- 63 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 64 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT078 T-141 - VFR Tank - Carbon Canister Stack (EP-239)

65 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]

66 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]

Which Months: All Year Statistical Basis: None specified

67 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.]

68 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]

EQT079 T-142 - VFR Tank - Carbon Canister Stack (EP-240)

69 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]

70 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]

Which Months: All Year Statistical Basis: None specified

71 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

72 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]

EQT080 EP-31 - South Flare

73 Opacity \leq 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1105]

Which Months: All Year Statistical Basis: None specified

74 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours. [LAC 33:III.1105]

75 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average

76 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

77 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]

78 Fuel gas: Hydrogen sulfide \leq 0.1 gr/dscm (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT080 EP-31 - South Flare

79 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device.

Subpart J. [40 CFR 60.105(a)(4)]

Which Months: All Year Statistical Basis: None specified

80 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

81 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

82 Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]

83 Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]

84 Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]

Which Months: All Year Statistical Basis: None specified

85 Exit Velocity < 60 ft/sec (18.3 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(4)(i)]

Which Months: All Year Statistical Basis: None specified

86 Exit Velocity >= 60 and < 400 ft/sec (18.3 m/sec and 122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(4)(ii)]

Which Months: All Year Statistical Basis: None specified

87 Exit Velocity < 400 ft/sec (122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4), and less than the velocity V_{max}, as determined by the method specified in 40 CFR 60.18(f)(5). Subpart A. [40 CFR 60.18(c)(4)(iii)]

Which Months: All Year Statistical Basis: None specified

88 Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]

89 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]

90 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]

Which Months: All Year Statistical Basis: None specified

91 Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]

92 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]

93 Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]

94 Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]

95 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]

Which Months: All Year Statistical Basis: None specified

96 Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(ii)]

Which Months: All Year Statistical Basis: None specified

97 Exit Velocity < 60 ft/sec (18.3 m/sec), as determined using the method specified in 40 CFR 63.11(b)(7)(i). Subpart A. [40 CFR 63.11(b)(7)(i)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20070004
Permit Number: 2624-V6
Air - Title V Regular Permit Minor Mod

EQT080 EP-31 - South Flare

- 98 Exit Velocity \geq 60 and $<$ 400 ft/sec (18.3 m/sec and 122 m/sec), as determined by the method specified in 40 CFR 63.11(b)(7)(i). Subpart A. [40 CFR 63.11(b)(7)(ii)]
Which Months: All Year Statistical Basis: None specified
- 99 Exit Velocity $<$ 400 ft/sec and Vmax, as determined by the method specified in 40 CFR 63.11(b)(7)(i). Determine Vmax using the method specified in 40 CFR 63.11(b)(7)(iii).
Subpart A. [40 CFR 63.11(b)(7)(iii)]
Which Months: All Year Statistical Basis: None specified
- 100 Meet the requirements of 40 CFR 63.11(b). Subpart CC. [40 CFR 63.643(a)(1)]
- 101 Presence of a flame monitored by the regulation's specified method(s) continuously. Use a device (including, but not limited to, a thermocouple, an ultraviolet beam sensor, or an infrared sensor) capable of continuously detecting the presence of a pilot flame. Subpart CC. [40 CFR 63.644(a)(2)]
Which Months: All Year Statistical Basis: None specified

EQT081 T-104 - External Floating Roof Tank (EP-437)

- 102 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]
MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]
- 103 Install and operate an external floating roof of meeting the requirements of 40 CFR 60.112(b)(a)(2). Subpart FF. [40 CFR 61.351(a)(2)]
- 104 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
- 105 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

EQT082 T-120 - External Floating Roof Tank (EP-438)

- 106 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]
MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]
- 107 Install and operate an external floating roof meeting the requirements of 40 CFR 60.112(b)(a)(2). Subpart FF. [40 CFR 61.351(a)(2)]
- 108 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
- 109 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

EQT083 T-133 - External Floating Roof Tank (WWTS - Equalization Tank, EP-457)

- 110 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]
MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]
- 111 Install and operate an external floating roof meeting the requirements of 40 CFR 60.112(b)(a)(2). Subpart FF. [40 CFR 61.351(a)(2)]
- 112 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
- 113 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-Y6

Air - Title V Regular Permit Minor Mod

T-6019 - External Floating Roof Tank (WWTS - Equalization Tank, EP-462)

- 114 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]
115 Install and operate an external floating roof meeting the requirements of 40 CFR 60.112(b)(a)(2). Subpart F. [40 CFR 61.351(a)(2)]
116 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
117 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

EQT084 H-2801 - Sulfuric Acid Air Heater (EP-47)

- 118 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
119 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified
120 Comply with NSPS Subpart J. [LAC 33:III.Chapter 15]
121 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average
122 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified
123 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
124 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
125 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

EQT086 H-6 - FCCU Feed Heater (EP-6)

- 126 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
127 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
Which Months: All Year Statistical Basis: None specified
128 Opacity shall not exceed 10%. PSD-LA-533 (M-3). [LAC 33:III.509]
129 Shall burn refinery fuel gas, hydrogen, or sweet natural gas only. The refinery fuel gas shall not exceed 0.1 grain of H2S per dry standard cubic foot. PSD-LA-584 (M-4). [LAC 33:III.509]
130 Comply with NSPS Subpart J. [LAC 33:III.Chapter 15]
131 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: Three-hour rolling average

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT086 H-6 - FCCU Feed Heater (EP-6)

132 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]

Which Months: All Year Statistical Basis: None specified

133 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

134 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

135 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

EQT092 T-6005 - Cone Roof Tank Vented to API/CPI Flare (EP-667)

136 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33.III.2103.A]

137 VOC, Total >= 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33.III.2103.E.2]

Which Months: All Year Statistical Basis: None specified

138 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33.III.2103.1.1 - 7, as applicable. [LAC 33.III.2103.1]

139 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33.III.5109.A]

140 Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]

141 Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]

142 Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]

143 Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]

Which Months: All Year Statistical Basis: None specified

144 Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]

145 Meet the requirements specified in 40 CFR 63.343(e)(1) through (e)(4). Subpart FF. [40 CFR 61.343(e)]

146 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]

147 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

EQT093 T-6006 - Cone Roof Tank Vented to API/CPI Flare (EP-668)

148 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33.III.2103.A]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT093 T-6006 - Cone Roof Tank Vented to API/CPI Flare (EP-668)

149 VOC, Total \geq 90 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.2]

Which Months: All Year Statistical Basis: None specified

150 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.]

151 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]

152 Fixed roof. Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]

153 Fixed roof. Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]

154 Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]

155 Fixed-roof. Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]

Which Months: All Year Statistical Basis: None specified

156 Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]

157 Meet the requirements specified in 40 CFR 63.343(e)(1) through (e)(4). Subpart FF. [40 CFR 61.343(e)]

158 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]

159 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

EQT095 T-6009 - Open Top Tank (Activated Sludge Unit, EP-673)

160 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]

161 Design and operate each waste management unit that comprises the waste treatment system in accordance with the appropriate standards specified in 40 CFR 61.343 through 61.347, except as specified in 40 CFR 61.348(b)(2). Subpart FF. [40 CFR 61.348(b)(1)]

162 Demonstrate that each treatment process or wastewater treatment system unit, except as specified in 40 CFR 61.348(d), achieves the appropriate conditions specified in 40 CFR 61.248(a) or (b) in accordance with the requirements in 40 CFR 61.348(c)(1) and (c)(2). Subpart FF. [40 CFR 61.348(c)]

163 Seal any openings and keep closed at all times when waste is being treated, except during inspection and maintenance, except as specified in 40 CFR 61.348(e)(3). Subpart FF. [40 CFR 61.348(e)]

164 Equipment/operational data monitored by the regulation's specified method(s) continuously. Monitor process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)]

Which Months: All Year Statistical Basis: None specified

165 Equipment/operational data recordkeeping by recorder continuously. Record process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT095 T-6009 - Open Top Tank (Activated Sludge Unit, EP-673)

- 166 Monitoring data monitored by technically sound method daily. Inspect the data recorded by the monitoring equipment to ensure that the unit is operating properly. Subpart FF. [40 CFR 61.354(a)(2)]
Which Months: All Year Statistical Basis: None specified
167 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
168 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

EQT096 T-6010 - Open Top Tank (Activated Sludge Unit, EP-674)

- 169 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109 A]
170 Design and operate each waste management unit that comprises the waste treatment system in accordance with the appropriate standards specified in 40 CFR 61.343 through 61.347, except as specified in 40 CFR 61.348(b)(2). Subpart FF. [40 CFR 61.348(b)(1)]
171 Demonstrate that each treatment process or wastewater treatment system unit, except as specified in 40 CFR 61.348(d), achieves the appropriate conditions specified in 40 CFR 61.248(a) or (b) in accordance with the requirements in 40 CFR 61.348(c)(1) and (c)(2). Subpart FF. [40 CFR 61.348(c)]
172 Seal any openings and keep closed at all times when waste is being treated, except during inspection and maintenance, except as specified in 40 CFR 61.348(e)(3). Subpart FF. [40 CFR 61.348(e)]
173 Equipment/operational data monitored by the regulation's specified method(s) continuously. Monitor process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)]
Which Months: All Year Statistical Basis: None specified
174 Equipment/operational data recordkeeping by recorder continuously. Record process parameter(s) for the treatment process or wastewater stream system unit that indicates proper system operation. Subpart FF. [40 CFR 61.354(a)(2)]
175 Monitoring data monitored by technically sound method daily. Inspect the data recorded by the monitoring equipment to ensure that the unit is operating properly. Subpart FF. [40 CFR 61.354(a)(2)]
Which Months: All Year Statistical Basis: None specified
176 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
177 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

EQT104 FL-101 - API/CPI Flare (EP-92)

- 178 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1105]
Which Months: All Year Statistical Basis: None specified
179 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours. [LAC 33:III.1105]

SPECIFIC REQUIREMENTS

All ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT104 FL-101 - API/CPI Flare (EP-92)

180 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]

Which Months: All Year Statistical Basis: Six-minute average
MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]
181 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]

182 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: Three-hour rolling average
183 As approved by EPA on November 12, 2003, No CEM needs be installed for the purpose of monitoring H2S in gas streams to the API/CPI flare. Instead, the H2S concentration in the flare gas shall be monitored using H2S detector tube sampling. The frequency of this monitoring shall be as outlined in the EPA policy guidance to Koch fuel, dated July 7, 2000. [40 CFR 60.105(a)(4)]

184 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

185 Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]

186 Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]

187 Determine the actual exit velocity by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(3)(i)(B)]

188 Heat content >= 200 BTU/scf (7.45 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]

Which Months: All Year Statistical Basis: None specified
189 Exit Velocity < 60 ft/sec (18.3 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(4)(i)]

Which Months: All Year Statistical Basis: None specified
190 Exit Velocity >= 60 and < 400 ft/sec (18.3 m/sec and 122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(4)(ii)]

Which Months: All Year Statistical Basis: None specified
191 Exit Velocity < 400 ft/sec (122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4), and less than the velocity Vmax, as determined by the method specified in 40 CFR 60.18(f)(5). Subpart A. [40 CFR 60.18(c)(4)(iii)]

Which Months: All Year Statistical Basis: None specified
192 Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares.

Subpart A. [40 CFR 60.18(d)]

193 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]
194 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]

Which Months: All Year Statistical Basis: None specified

EQT105 H-14 - Thermal Cracker Heater (EP-61)

195 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]

Which Months: All Year Statistical Basis: None specified
196 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20070004
Permit Number: 2624-V6
Air - Title V Regular Permit Minor Mod

EQT105 H-14 - Thermal Cracker Heater (EP-61)

- 197 Low-NOx Burners (0.032 lb NOx/MM BTU, 365-day rolling average) shall be maintained on this heater per Consent Decree lodged on December 20, 2001. Civil Action No. H-01-4430. [LAC 33:III.501.C.6]
- 198 Carbon monoxide <= 0.06 lb/MMBTU per Consent Decree lodged December 20, 2001, Civil Action No. H-01-4430. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: 24-hour average
- 199 Carbon monoxide <= 0.04 lb/MMBTU (365-day rolling average) per Consent Decree lodged December 20, 2001, Civil Action No. H-01-4430. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 200 Nitrogen oxides <= 0.06 lb/MMBTU per Consent Decree lodged December 20, 2001, Civil Action No. H-01-4430. [LAC 33:III.501.C.6]
- Which Months: Phases: Statistical Basis: 24-hour average
- 201 To ensure compliance with the CO and NOx emission limits, the CO and NOX continuous emission monitoring systems (CEMS) shall be installed and maintained per Consent Decree lodged December 20, 2001, Civil Action No. H-01-4430. [LAC 33:III.501.C.6]
- 202 Comply with NSPS Subpart J. [LAC 33:III Chapter 15]
- 203 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mgdscm). Subpart J. [40 CFR 60.104(a)(1)]
- Which Months: All Year Statistical Basis: Three-hour rolling average
- 204 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- Which Months: All Year Statistical Basis: None specified
- 205 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 206 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 207 Submit the initial notification required by 40 CFR 63.9(b) per 40 CFR 63.7506(b). Subpart DDDDD. [40 CFR 63.7506(b)]

EQT106 H-30001 - No. 2 CTU Heater

- 208 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
- Which Months: All Year Statistical Basis: None specified
- 209 Total suspended particulate <= 0.6 lb/MMBTU of heat input. [LAC 33:III.1313.C]
- Which Months: All Year Statistical Basis: None specified
- 210 The heat input to this boiler is limited to 1,743,240 MM BTU per year (based on high heating value). To ensure compliance with this limit, the permittee shall record operating hours of and heat input rate (or fuel input rate) to the boiler. The heat input to the boiler shall be calculated based on the operating hours and heater input rate and shall be recorded each month. The calculated heat input for last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total heat input to the boiler over the limit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing monthly heat input to the boiler for the preceding calendar year shall be submitted to Office of Environmental Compliance, Enforcement Division by March 31. [LAC 33:III.501.C.6]
- 211 To ensure compliance with NOx emission limit, a Continuous Emission Monitoring System (CEMS) shall be installed and maintained on this heater to monitor NOx emissions. [LAC 33:III.501.C.6]
- 212 Comply with all applicable MACT requirements of LAC 33:III.510. [LAC 33:III.510]
- 213 Comply with NSPS Subpart J. [LAC 33:III.Chapter 15]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT106 H-30001 - No. 2 CTU Heater

214 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: Three-hour rolling average

215 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device.

Subpart J. [40 CFR 60.105(a)(4)]

Which Months: All Year Statistical Basis: None specified

216 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

217 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

218 Comply with 40 CFR 63 Subpart DDDDD by November 12, 2004 or upon startup, whichever is later. Subpart DDDDD. [40 CFR 63.7495(a)]

219 Comply with 40 CFR 63 Subpart DDDDD upon startup. Subpart DDDDD. [40 CFR 63.7495(c)(1)]

220 Carbon monoxide <= 400 ppmv (dry basis) corrected to 3% oxygen (30-day rolling average). Subpart DDDDD. [40 CFR 63.7500(a)(1)]

Which Months: All Year Statistical Basis: None specified

221 Be in compliance with the emission limits (including operating limits) and work practice standards in 40 CFR 63 Subpart DDDDD at all times, except during periods of startup, shutdown, and malfunction. Subpart DDDDD. [40 CFR 63.7505(a)]

222 Operate and maintain according to the provisions in 40 CFR 63.6(e)(1)(i) at all times. Subpart DDDDD. [40 CFR 63.7505(b)]

223 Develop a site-specific monitoring plan according to the requirements in 40 CFR 63.7505(d)(1) through (d)(4). Subpart DDDDD. [40 CFR 63.7505(d)]

224 Develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in 40 CFR 63.6(e)(3). Subpart DDDDD. [40 CFR 63.7505(e)]

225 Demonstrate continuous compliance with the applicable emission limits in 40 CFR 63 Subpart DDDDD Table 1 by keeping records that demonstrate that you burn only liquid fossil fuels other than residual oils, either alone or in combination with gaseous fuels. Include a signed statement in each semiannual compliance report required in 40 CFR 63.7550 that indicates you burned only liquid fossil fuels other than residual oils, either alone or in combination with gaseous fuels, during the reporting period. Subpart DDDDD. [40 CFR 63.7506(a)(2)]

226 Demonstrate initial compliance with the promulgated emission limits and work practice standards no later than 180 days after startup. Subpart DDDDD. [40 CFR 63.7510(g)]

227 Carbon monoxide monitored by continuous emission monitor (CEM) continuously, according to the procedures in 40 CFR 63.7525(a)(1) through (a)(6) by the compliance date specified in 40 CFR 63.7495. Subpart DDDDD. [40 CFR 63.7525(a)]

Which Months: All Year Statistical Basis: None specified

228 Monitor and collect data according to 40 CFR 63.7535 and the site-specific monitoring plan required by 40 CFR 63.7505(d). Subpart DDDDD. [40 CFR 63.7535(a)]

229 Report each instance in which emission limits, operating limits, and work practice standards in 40 CFR 63 Subpart DDDDD Tables 1 through 4 are not met; and each instance during a startup, shutdown or malfunction when emission limits, operating limits, and work practice standards are not met. Report according to the requirements in 40 CFR 63.7550. Subpart DDDDD. [40 CFR 63.7540(b)]

230 Operate in accordance with the SSMP as required by 40 CFR 63.7505(e) during periods of startup, shutdown, and malfunction. Subpart DDDDD. [40 CFR 63.7540(c)]

231 Submit all of the notifications in 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (h) by the dates specified, as specified in 40 CFR 63.7545(b) through (e), as applicable. Subpart DDDDD. [40 CFR 63.7545(a)]

232 Submit notification of intent to conduct a performance test at least 30 days before the performance test is scheduled to begin, if required to conduct a performance test. Subpart DDDDD. [40 CFR 63.7545(d)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT106 H-30001 - No. 2 CTU Heater

- 233 Submit Report: Due if there is a startup, shutdown or malfunction during the reporting period that is not consistent with the startup, shutdown and malfunction plan, and any applicable emission limitation in the relevant emission standard is exceeded. Submit startup, shutdown and malfunction report within 2 working days by fax or telephone after starting actions inconsistent with the startup, shutdown or malfunction plan; and within 7 working days by letter after the end of the event unless alternate arrangements have been made with DEQ. Include actions taken for the event, and the information specified in 40 CFR 63.10(d)(5)(ii). Subpart DDDDD. [40 CFR 63.7550(a)]
- 234 Submit compliance status report: Due semiannually, by the 31st of January and July. Submit the compliance report according to 40 CFR 63.7550(b)(1) through (b)(5). Include the information specified in 40 CFR 63.7550(c) through (e), as applicable. Subpart DDDDD. [40 CFR 63.7550]
- 235 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in 40 CFR 63.7555(a) through (e), as applicable. Subpart DDDDD. [40 CFR 63.7555]
- 236 Keep records in a form suitable and readily available for expedited review, according to 40 CFR 63.10(b)(1). Subpart DDDDD. [40 CFR 63.7560(a)]
- 237 Keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record and keep on site for at least 2 years, as specified in 40 CFR 63.10(b)(1). Subpart DDDDD. [40 CFR 63.7560]

EQT108 T-3505 - Cone Roof Tank Vented to API/CPI Flare (EP-669)

- 238 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 239 VOC, Total $\geq 90\%$ control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.2]

Which Months: All Year Statistical Basis: None specified

- 240 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 241 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116(b)(a). Subpart Kb. [40 CFR 60.116(b)]
- 242 Fixed roof: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.343(a)(1)(i)(A)]
- 243 Fixed roof: Maintain each opening in a closed, sealed position at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.343(a)(1)(i)(C). Subpart FF. [40 CFR 61.343(a)(1)(i)(B)]
- 244 Install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device. Subpart FF. [40 CFR 61.343(a)(1)]
- 245 Fixed-roof: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.343(c)]
- Which Months: All Year Statistical Basis: None specified
- 246 Make first efforts at repair as soon as practicable, but not later than 45 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.343(d)]
- 247 Meet the requirements specified in 40 CFR 63.343(e)(1) through (e)(4). Subpart FF. [40 CFR 61.343(e)]
- 248 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
- 249 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]
- 250 Comply with the requirements of 40 CFR 63.119 through 63.121, except as provided in 40 CFR 63.646(b) through (l). Subpart CC. [40 CFR 63.646(a)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

EQT108 T-3505 - Cone Roof Tank Vented to AP/CPI Flare (EP-669)

- 251 Notify DEQ of the refilling of each Group 1 storage vessel that has been emptied and degassed, in order to afford DEQ the opportunity to have an observer present. Submit notification in writing according to the schedules specified in 40 CFR 63.654(h)(2)(i)(A) through (h)(2)(i)(C). Subpart CC. [40 CFR 63.654(h)(2)(i)]
252 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 63.123 of 40 CFR 63 Subpart G, except as specified in 40 CFR 63.654(i)(1)(i) through (i)(1)(iv). Subpart CC. [40 CFR 63.654(i)(1)]

EQT109 EP-42: Sulfuric Acid Unit

- 253 Class III TAP only. MACT is not required. [LAC 33:III.501.C.6]
254 Comply with NSPS Subpart H. [LAC 33:III.501.C.6]
255 Sulfur dioxide <= 4 lb/ton (2 kg/metric ton) of acid produced, the production being expressed as 100% H₂SO₄. Subpart H. [40 CFR 60.82(a)]
Which Months: All Year Statistical Basis: None specified
256 Acid mist <= 0.15 lb/ton (0.075 kg/metric ton) of acid produced, expressed as H₂SO₄, the production being expressed as 100% H₂SO₄. Subpart H. [40 CFR 60.83(a)(1)]
Which Months: All Year Statistical Basis: None specified
257 Opacity < 10 percent. Subpart H [40 CFR 60.83(a)(2)]
Which Months: All Year Statistical Basis: None specified
258 Sulfur dioxide monitored by CMS continuously. Subpart H. [40 CFR 60.84(a)]
Which Months: All Year Statistical Basis: None specified
259 Use as reference methods and procedures the test methods in 40 CFR 60 Appendix A or other methods and procedures as specified in 40 CFR 60.85, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart H. [40 CFR 60.85(a)]

EQT111 T-3086 - Slurry Day Tank

- 260 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
261 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
262 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Low TAP emissions. No further control is required. [LAC 33:III.5109.A]

EQT119 TK-10863 - FCCU Aqueous Ammonia Tank

- 263 Class III TAP only. MACT is not required. [LAC 33:III.5109.A]

FUG008 EP-149 - Area B Drain, Sumps, and Junction Box Fugitives

- 264 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. Comply with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.5109.A]
265 Comply with the requirements of 40 CFR 60.692-2 and 60.692-3. Subpart QQQ. [40 CFR 60.692-4]
266 Before using any equipment installed in compliance with 40 CFR 60.692-2, 60.692-3, 60.692-4, 60.692-5, or 60.693, inspect such equipment for indication of potential emissions, defects, or other problems that may cause requirements of 40 CFR 60 Subpart QQQ not to be met. Subpart QQQ. [40 CFR 60.696(a)]
267 Retain all records required by 40 CFR 60 Subpart QQQ for a period of 2 years after being recorded unless otherwise noted. Subpart QQQ. [40 CFR 60.697(a)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

FUG008 EP-149 - Area B Drain, Sumps, and Junction Box Fugitives

- 268 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(e)(1) through (e)(4), as applicable. Subpart QQQ. [40 CFR 60.697(e)]
- 269 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 60.697(f)(1) and (f)(2) for the life of the source in a readily accessible location. Subpart QQQ. [40 CFR 60.697(f)]
- 270 Submit a certification that the equipment necessary to comply with 40 CFR 60 Subpart QQQ has been installed and that the required initial inspections or tests of process drains, sewer lines, junction boxes, oil-water separators, and closed vent systems and control devices have been carried out in accordance with 40 CFR 60 Subpart QQQ. Thereafter, submit a certification semiannually that all of the required inspections have been carried out in accordance with 40 CFR 60 Subpart QQQ. Subpart QQQ. [40 CFR 60.698(b)(1)]
- 271 Submit report. Due initially and semiannually thereafter. Submit a report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken. Subpart QQQ. [40 CFR 60.698(c)]
- 272 Cover: Ensure that the cover and all openings are designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h). Subpart FF. [40 CFR 61.346(a)(1)(i)(A)]
- 273 Maintain each opening in a closed, sealed position at all times that waste is in the drain system except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair, except as specified in 40 CFR 61.346(a)(1)(i)(C). Subpart FF. [40 CFR 61.346(a)(1)(i)(B)]
- 274 Cover: Equipment/operational data monitored by visual inspection/determination once initially and once every quarter thereafter to ensure that no cracks or gaps occur and that access hatches and other openings are closed and gasketed properly. Subpart FF. [40 CFR 61.346(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 275 Make first efforts at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gasket or other problem is identified, or when detectable emissions are measured, except as provided in 40 CFR 61.350. Subpart FF. [40 CFR 61.346(a)(3)]
- 276 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]
- 277 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

FUG009 EP-245 - Area B Process Fugitives

- 278 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]
- 279 Comply with LAC 33:III.2122 by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines (streamlined equipment leak monitoring program). Compliance is achieved through compliance with Louisiana Refinery MACT Determination dated July 26, 1994. [LAC 33:III.2122]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

FUG009 EP-245 - Area B Process Fugitives

280 The number of each type of component required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDSEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units without triggering the need to apply for a permit modification, provided:

- a) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increase except from the fugitive emission components themselves;
 - b) The changes do not involve any associated increase in production rate or capacity, or tie in of new or modified process equipment other than the piping components;
 - c) Actual emissions following the changes will not exceed the emission limits contained in this permit; and
 - d) The components are promptly incorporated into any applicable leak detection or repair program. [LAC 33:III.501.C.6]
- 281 Shall comply the streamlined equipment leak monitoring program specified in Appendix B. [LAC 33:III.501.C.6]
- 282 Identify each piece of equipment in a process unit subject to this MACT determination such that it can be distinguished readily from equipment that is not subject to this MACT determination, as specified in Subsection C.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 283 VOC, Total monitored by technically sound method at the regulation's specified frequency. Monitor equipment that has been physically removed from service, disassembled or dismantled in the next scheduled monitoring period or within 1 year of placing back in service, whichever occurs first, to determine if it is leaking, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 284 VOC, Total recordkeeping by manual logging at the regulation's specified frequency. Maintain a record of the monitoring in the log required in Subsection Q.5, as specified in Subsection C.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 285 Pumps in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly. Monitor to detect leaks by the methods specified in Subsection P.2, except as provided in Subsections C.4, D.4, D.5 and D.6, as specified in Paragraph D.1.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If an instrument reading of 2000 ppm or greater is measured, a leak is detected.
- 286 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure, or equip with a barrier fluid degassing reservoir that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emissions to the atmosphere, as specified in Paragraph D.4.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- 287 Pumps in light liquid service (dual mechanical seal system): Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection D.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]
- 288 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure, or equip with a barrier fluid degassing reservoir that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emissions to the atmosphere, as specified in Paragraph D.4.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- 289 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in VOTAP service and, if the pump is covered by standards under NSPS, is not in VOC service, as specified in Paragraph D.4.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

FUG009 EP-245 - Area B Process Fugitives

- 290 Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- 291 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar), as specified in Paragraph D.4.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 292 Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily. Check sensor daily or equip with an audible alarm, as specified in Subparagraph D.4.e.i of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in Paragraph D.4.e.ii, a leak is detected. If a leak is detected, initiate repair provisions specified in Paragraphs D.3.a and D.3.b. Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 293 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Subparagraph D.4.e.ii of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection D.1. [LAC 33:III.5109.A]
- 294 Pumps in light liquid service: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal or seals to a control device that complies with the requirements of Section N, as specified in Paragraph D.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections D.1 through D.4. [LAC 33:III.5109.A]
- 295 Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency, as specified in Subparagraph D.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor pump as often as practicable and at least monthly. Comply with this requirement instead of the weekly visual inspection requirements in Paragraphs D.1.b and D.4.d, and the daily requirements in Paragraph D.4.e.i. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 296 Compressors (seal system): VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection E.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor to detect leaks using the methods specified in Section P. If an instrument reading of 50000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 297 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided for in Subsections C.4, E.9 and E.10, as specified in Subsection E.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 298 Compressors (seal system): Operate with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure, or equip with a barrier fluid system that is connected by a closed-vent system to a control device that complies with the requirements of Section N, or equip with a system that purges the barrier fluid into a process stream with zero VOTAP emission to the atmosphere, as specified in Subsection E.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 299 Compressors: Ensure that the barrier fluid is not in VOTAP service and, if the compressor is covered by a standard under NSPS, is not in VOC service, as specified in Subsection E.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 300 Compressors: Equip each barrier fluid system as described in Subsections E.2 through E.4 with a sensor that will detect failure of the seal system, the barrier fluid system, or both, as specified in Subsection E.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20070004
Permit Number: 2624-V6
Air - Title V Regular Permit Minor Mod

FUG009 EP-245 - Area B Process Fugitives

- 301 Compressors: Equipment/operational data monitored by technically sound method daily, as specified in Paragraph E.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Check each sensor as required in Subsection E.5 daily or equip with an audible alarm unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on criterion determined under Paragraph E.6.b, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection E.8. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 302 Compressors: Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both, as specified in Paragraph E.6.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 303 Compressors: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection E.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]
- 304 Compressors: Equip with a closed-vent system capable of capturing and transporting any leakage from the seal to a control device that complies with the requirements of Section N, except as provided for in Subsection E.10, as specified in Paragraph E.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections E.1 through E.7. [LAC 33:III.5109.A]
- 305 Compressors (no detectable emissions): Demonstrate that the compressor is operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in Subsection P.3, as specified in Paragraph E.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsections E.2 through E.9. [LAC 33:III.5109.A]
- 306 Compressors (no detectable emissions): VOC, Total monitored by the regulation's specified method(s) once initially upon designation, annually, and at other times requested by DEQ, as specified in Paragraph E.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsections E.2 through E.9. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 307 Pressure relief device in gas/vapor service: VOC, Total < 500 ppm except during pressure releases, as measured by the method specified in Section P.3, as specified in Subsection F.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 308 Pressure relief device in gas/vapor service: After each pressure release, return to a condition of no leakage, as indicated by an instrument reading of less than 500 ppm, as soon as practicable, but no later than five calendar days after each pressure release, except as provided in Section M, as specified in Section F.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 309 Pressure relief device in gas/vapor service: VOC, Total monitored by the regulation's specified method(s) within 5 days (calendar) after the pressure release to confirm the condition of no leakage, as indicated by an instrument reading of less than 500 ppm above background, as specified in Section F.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.3. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 310 Pressure relief device in gas/vapor service: Equip with a closed-vent system capable of capturing and transporting leakage from the pressure relief device to a control device as described in Section N, as specified in Section F.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Alternative to Subsections F.1 and F.2. [LAC 33:III.5109.A]
- 311 Sampling connection systems: Equip with a closed-purge system or closed-vent system, except as provided for in Section C, as specified in Subsection G.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Ensure that this system collects or captures the sample purge for return to the process. [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20070004
Permit Number: 2624-V6
Air - Title V Regular Permit Minor Mod

FUG009 EP-245 - Area B Process Fugitives

- 312 Sampling connection systems (closed-purge or closed-vent system): Return the purged process fluid directly to the process line with zero VOTAP emissions to the atmosphere, or collect and recycle the purged process fluid with zero VOTAP emissions to the atmosphere, or be designed and operated to capture and transport all the purged process fluid to a control device that complies with the requirements of Section N, as specified in Subsection G.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 313 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve that seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line or during maintenance and repair, as specified in Subsection H.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 314 Open-ended valves or lines (equipped with a second valve): Operate in a manner such that the valve on the process fluid end is closed before the second valve is closed, as specified in Subsection H.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 315 Open-ended valves or lines: Monitor and repair in accordance with Section I, as specified in Subsection H.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 316 Valves in gas/vapor service and in light liquid service: VOC, Total monitored by the regulation's specified method(s) quarterly, as specified in Subsection I.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 1000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection I.3. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 317 Valves in gas/vapor service and in light liquid service (percent leaking valves ≥ 4): VOC, Total monitored by the regulation's specified method(s) monthly, as specified in Subsection I.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Monthly monitoring must be initiated within 60 days of the previous monitoring and must continue until the percent of leaking valves is less than 4, at which time monitoring can be performed in accordance with Subsection I.1. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 318 Valves in gas/vapor service and in light liquid service (percent leaking valves ≤ 2 for two consecutive quarterly leak detection periods): VOC, Total monitored by the regulation's specified method(s) semiannually, as specified in Paragraph J.2.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 319 Valves in gas/vapor service and in light liquid service (percent leaking valves ≤ 2 for two consecutive semiannual leak detection periods): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Paragraph J.2.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the percentage of valves leaking is greater than 2 for any monitoring period, comply with the requirements as described in Section I, as specified in Paragraph J.2.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Optional alternative to quarterly monitoring. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 320 Valves in gas/vapor service and in light liquid service (using skip period leak detection and repair): Notify DEQ at least 30 days before implementing one of the alternate monitoring scenarios in Section J, as specified in Paragraph J.1.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 321 Valves in gas/vapor service and in light liquid service: Repair leaks as soon as practicable, but no later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection I.3 and I.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]

SPECIFIC REQUIREMENTS

All ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

FUG009 EP-245 - Area B Process Fugitives

- 322 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with Subsection I.1, as specified in Subsection I.5.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.5109.A]
- 323 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve as frequently as practicable during safe-to-monitor times, as specified in Subsection I.5.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 324 Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than two meters above a support service, as specified in Subsection I.6.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.5109.A]
- 325 Valves in gas/vapor service and in light liquid service (difficult-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valve at least once per calendar year, as specified in Subsection I.6.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. Comply with this requirement instead of the requirements in Subsection I.1. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 326 Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service: VOC, Total monitored by the regulation's specified method(s) within 5 days of finding evidence of a potential leak by visual, audible, olfactory, or any other detection method, as specified in Subsection K.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Subsection P.2. If an instrument reading of 2000 ppm or greater for pumps or 1000 ppm or greater for valves, connectors, instrument systems, or pressure relief devices is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection K.3. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified
- 327 Instrument systems and pressure relief devices in liquid service; pumps, valves, connectors, and agitators in heavy liquid service; connectors < 1 inch in inside diameter in gas/vapor or light liquid service: Repair leaks as soon as practicable, but not later than 15 calendar days after a leak is detected, except as provided in Section M, as specified in Subsection K.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after each leak is detected. [LAC 33:III.5109.A]
- 328 Surge control vessels and bottoms receivers: Equip each surge control vessel and bottoms receiver that is not routed back to the process with a closed-vent system that routes the organic vapors vented from the vessel back to the process or to a control device that complies with the requirements of Section N or to an alternate method of control which has been approved by DEQ, as specified in Section L of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 329 Repair equipment before the end of the next process unit shutdown, if repair is technically infeasible with a process unit shutdown, as specified in Subsection M.1 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 330 Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size: VOC, Total monitored by the regulation's specified method(s) once initially, as specified in Subsections O.1 and O.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If an instrument reading >= 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M. [LAC 33:III.5109.A]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

All ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

FUG009 EP-245 - Area B Process Fugitives

331 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors \leq 2): VOC, Total monitored by the regulation's specified method(s) annually, as specified in Subsections O.2 and O.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). . Monitoring must be performed in the same calendar quarter as the previous monitoring. Monitor using the method specified in Section P. If an instrument reading \geq 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

332 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (percent of leaking connectors $>$ 2): VOC, Total monitored by the regulation's specified method(s) quarterly until good performance is obtained or until four quarterly monitorings have been performed, as specified in Subsections O.2 and O.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If good performance has not been obtained after four quarters of monitoring, monitor the remaining unchecked connectors within three months of the last quarterly monitoring period, as specified in Subsection O.6 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). If monitoring of the remaining connectors indicates good performance, monitor in accordance with Subsection O.4. If monitoring of the remaining connectors indicates that good performance has not been obtained, monitor in accordance with Subsection O.5. Monitor using the method specified in Section P. If an instrument reading \geq 1000 ppm is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in Subsection O.9, except as provided in Section M. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

333 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (welded completely around the circumference of the interface or physically removed and the pipe welded together): Equipment/operational data monitored by the regulation's specified method(s) within three months after being welded. Check the integrity of the weld by monitoring according to the procedures in Section P or by testing using x-ray, acoustic monitoring, hydrotesting, or other applicable method, as specified in Subsection O.7 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

334 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (open or otherwise had the seal broken): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Monitor for leaks after being returned to VOTAP service during the next scheduled monitoring period, as specified in Paragraph O.8 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method specified in Section P. If the follow-up monitoring detects a leak, initiate repair provisions specified in Subsection O.9, unless it is determined to be unrepairable, in which case it is counted as unrepairable. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

335 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size: Repair Leaks as soon as practicable, but not later than 15 calendar days after a leak is detected. Make a first attempt at repair no later than 5 calendar days after each leak is detected. If a leak is detected, monitor the for leaks within the first 90 days after its repair, as specified in Subsection O.9 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]

336 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): Determine that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with Subsections O.2 through O.6, as specified in Subsection O.10.a of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the requirements in Subsection O.1. [LAC 33:III.5109.A]

337 Connectors in gas/vapor service and in light liquid service \geq one inch in inside diameter size (unsafe-to-monitor): VOC, Total monitored by the regulation's specified method(s) at the regulation's specified frequency. Maintain a written plan that requires monitoring as frequently as practicable during safe to monitor periods, as specified in Subsection O.10.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Monitor using the method in Section P. Comply with this requirement instead of the requirements in Subsection O.1. [LAC 33:III.5109.A]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-Y6

Air - Title V Regular Permit Minor Mod

FUG009 EP-245 - Area B Process Fugitives

- 338 Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size (inaccessible or glass or glass-lined): Repair leaks as soon as practicable, but no later than 15 calendar days after detecting a leak by visual, audible, olfactory or other means, except as specified in Subsection O.8, as specified in Subsection O.11.b of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Make a first attempt at repair no later than 5 calendar days after the leak is detected, as specified in Subsection O.11.c of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). Comply with this requirement instead of the monitoring requirements of Subsection O.2 through O.6 and the recordkeeping and reporting requirements. [LAC 33:III.5109.A]
- 339 Connectors in gas/vapor service and in light liquid service >= one inch in inside diameter size: Calculate the percent leaking connectors using the equation in Subsection O.12 for use in determining the monitoring frequency, as specified in Subsection O.12 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 340 Comply with the test methods and procedures in Section P, as specified in Subsections P.1 through P.5 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 341 Attach a weatherproof and readily visible identification, marked with the equipment identification, to leaking equipment, as specified in Subsection Q.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 342 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep records of the information specified in Subsections Q.1 through Q.13 as applicable, as specified in Section Q of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 343 Submit statement: Due in writing by 90 days after approval of the Compliance Plan/Certificate of Compliance. Submit the information specified in Subsections R.1 and R.3, as specified in Subsections R.1 and R.3 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 344 Submit report: Due quarterly starting three months after the initial report required in Subsection R.1. Include the information specified in Paragraphs R.2.a through R.2.e, as specified in Subsection R.2 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 345 Valves in gas/vapor service and in light liquid service (skip period leak detection and repair): Notify DEQ 30 days before implementing any of the alternate provisions of Section J, as specified in Subsection R.4 of the Louisiana MACT Determination for Refinery Equipment Leaks (July 26, 1994). [LAC 33:III.5109.A]
- 346 Comply with 40 CFR 60 Subpart GGG by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines (streamlined equipment leak monitoring program).
- 347 Comply with the provisions of 40 CFR 60 Subpart VV and 40 CFR 63.648(b) except as provided in 40 CFR 63.648(a)(1), (a)(2), and (c) through (i). Subpart CC. [40 CFR 63.648(a)]
- 348 Maintain all records for a minimum of 5 years. Subpart CC. [40 CFR 63.648(h)]
- 349 Comply with the recordkeeping and reporting provisions in 40 CFR 63.654(d)(1) through (d)(6). Subpart CC. [40 CFR 63.654(d)]

GRP023 Lake Charles Refinery - Area B

- 350 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 351 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]
- 352 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 353 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 354 Control emissions of volatile organic compounds from petroleum refinery process unit turnarounds by pumping the liquid contents to storage and depressurizing the processing units to five psig (pounds per square inch gauge) or below before venting to the atmosphere. Control the vapors during the depressurization prior to venting to atmosphere by one of the applicable methods specified in LAC 33:III.2115.A, B, and F. [LAC 33:III.2141.A]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

GRP023 Lake Charles Refinery - Area B

- 355 Keep records and determine compliance as specified in LAC 33:III.2115.I, J, and K. [LAC 33:III.2141.A]
- 356 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 357 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 358 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G. [LAC 33:III.2901.F]
- 359 Carbon monoxide <= 870.47 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 360 Nitrogen oxides <= 698.25 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 361 Particulate matter (10 microns or less) <= 96.23 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 362 Sulfur dioxide <= 1644.58 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 363 1,1,1-Trichloroethane < 0.01 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 364 1,3-Butadiene <= 0.13 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 365 2,2,4-Trimethylpentane <= 1.50 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 366 Acetonitrile < 0.01 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 367 Aniline <= 0.11 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 368 Arsenic (and compounds) < 0.01 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 369 Benzene <= 1.57 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 370 Biphenyl <= 0.31 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 371 Carbon disulfide <= 0.19 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 372 Chlorine <= 0.29 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 373 Cumene <= 0.18 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum
- 374 Diethanolamine <= 0.10 tons/yr. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: Annual maximum

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20070004

Permit Number: 2624-V6
Air - Title V Regular Permit Minor Mod

GRP023 Lake Charles Refinery - Area B

- 375 Ethyl benzene <= 1.14 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 376 Hydrogen sulfide <= 2.47 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 377 Methanol <= 0.02 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 378 Naphthalene <= 1.75 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 379 n-Hexane <= 3.23 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 380 Lead compounds < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 381 Nickel (and compounds) < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 382 Phenol <= 0.12 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 383 Polynuclear Aromatic Hydrocarbons <= 0.84 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 384 Pyridine <= 0.12 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 385 Quinoline <= 0.11 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 386 Selenium (and compounds) < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 387 Styrene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 388 Sulfuric acid <= 58.88 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 389 Toluene <= 3.89 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 390 Vinyl acetate <= 0.14 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 391 Xylene (mixed isomers) <= 4.35 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 392 para-Phenylenediamine <= 0.12 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 393 Ammonia <= 131.64 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 394 VOC, Total <= 299.05 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

GRP023 Lake Charles Refinery - Area B

395 Comply with the requirements of PSD-LA-390, PSD-LA-419, PSD-LA-533 (M-3), PSD-LA-584 (M-4), and PSD-LA-699. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-390, PSD-LA-419, PSD-LA-533 (M-3), PSD-LA-584 (M-4), and PSD-LA-699. [LAC 33:III.509]

396 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.31]

397 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]

398 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.2]

399 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:I.3923. [LAC 33:III.5107.B.3]

400 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4. a.i through viii. [LAC 33:III.5107.B.4]

401 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]

402 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]

403 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. [LAC 33:III.5109.B]

404 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]

405 Obtain a Louisiana Air Permit in accordance with LAC 33:III.5111.B and C and in accordance with LAC 33:I.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]

406 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up. [LAC 33:III.5113.A.1]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

GRP023 Lake Charles Refinery - Area B

- 407 Submit notification in writing: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source. [LAC 33:III.5113.A.2]
- 408 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 409 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 410 Provide emission testing facilities as specified in LAC 33:III.5113.B.4.a through e. [LAC 33:III.5113.B.4]
- 411 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 412 Submit certified letter: Due to the Office of Environmental Assessment, Air Quality Assessment Division, before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 413 Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, at least 30 days before the emission test. Submit notification of emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 414 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 415 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 416 Submit performance evaluation report: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 417 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]
- 418 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 419 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 420 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 421 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 422 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 423 Submit plan: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 424 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 425 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.5151.F.1]
- 426 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

GRP023 Lake Charles Refinery - Area B

427 Activate the preplanned strategy listed in LAC 33:III.5611, Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]

428 Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]

429 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611, Tables 5, 6, and 7. [LAC 33:III.5609.A]

430 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]

431 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]

432 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]

433 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]

434 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III.Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division. [LAC 33:III.5911.A]

435 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]

436 Submit Emission Inventory (E) Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]

437 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]

438 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]

439 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]

440 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]

441 Equipment/operational data recordkeeping by electronic or hard copy continuously Maintain records as specified in 40 CFR 61.356(a) through (n). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

442 Submit report: Due within 90 days after January 7, 1993. Submit a report that summarizes the regulatory status of each waste stream subject to 40 CFR 61.342 and is determined by the procedures specified in 40 CFR 61.355(c) to contain benzene. Include the information specified in 40 CFR 61.357(a)(1) through (a)(4). If there is no benzene onsite in wastes, products, by-products, or intermediates, submit an initial report that is a statement to this effect. Subpart FF. [40 CFR 61.357(a)]

443 Submit report: Due annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 Mg/yr (11 ton/yr) or more. Submit updates to the information specified in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(c)]

444 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]

445 Shall comply with all applicable provisions of 40 CFR 63 Subpart EEEE. [40 CFR 63.2330-2406]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER2007004

Permit Number: 2624-Y6

Air - Title V Regular Permit Minor Mod

GRP023 Lake Charles Refinery - Area B

- 446 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 447 Develop a management system to oversee the implementation of the risk management program elements. [40 CFR 68.15(a)]
- 448 Assign a qualified person or position that has the overall responsibility for the development, implementation, and integration of the risk management program elements. [40 CFR 68.15(b)]
- 449 Define the lines of authority through an organization chart or similar document when responsibility for implementing individual requirements of 40 CFR 68 is assigned to persons other than the person identified under 68.15(b). [40 CFR 68.15(c)]
- 450 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the names or positions of the people, other than the person identified under 68.15(b), who are assigned responsibility for implementing individual requirements of 40 CFR 68. [40 CFR 68.15(c)]
- 451 Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999. [40 CFR 68.150]
- 452 Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g). [40 CFR 68.155]
- 453 Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13). [40 CFR 68.160]
- 454 Submit in the RMP information the release scenarios specified in 68.165(a)(2). Include the data listed in 68.165(b)(1) through (13). [40 CFR 68.165]
- 455 Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a). [40 CFR 68.168]
- 456 Provide in the RMP the information indicated in 68.175(b) through (p). [40 CFR 68.175]
- 457 Provide in the RMP the emergency response information listed in 68.180(a) through (c). [40 CFR 68.180]
- 458 Submit in the RMP a single certification that, to the best of the signer's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. [40 CFR 68.185(b)]
- 459 Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)]
- 460 Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999. [40 CFR 68.190]
- 461 Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided. [40 CFR 68.200]
- 462 Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences. [40 CFR 68.22]
- 463 Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h). [40 CFR 68.25]
- 464 Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e). [40 CFR 68.28]
- 465 Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). [40 CFR 68.30]
- 466 List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). [40 CFR 68.33]
- 467 Submit revised RMP: Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 468 Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

GRP023 Lake Charles Refinery - Area B

- 469 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (e) on the offsite consequence analyses. [40 CFR 68.39]
- 470 Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release. [40 CFR 68.42]
- 471 Compile written process safety information, which includes information pertaining to the hazards of the regulated substances used or produced by the process, information pertaining to the technology of the process, and information pertaining to the equipment in the process, before conducting any process hazard analysis required by 40 CFR 68. [40 CFR 68.65(a)]
- 472 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that equipment complies with recognized and generally accepted good engineering practices. [40 CFR 68.65(d)(2)]
- 473 Determine the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 474 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the priority order for conducting process hazard analyses based on a rationale which includes such considerations as extent of the process hazards, number of potentially affected employees, age of the process, and operating history of the process. [40 CFR 68.67(a)]
- 475 Use one or more of the methodologies in Sec. 68.67(b)(1) through (b)(7) to determine and evaluate the hazards of the process being analyzed. [40 CFR 68.67(b)]
- 476 Use a team with expertise in engineering and process operations to perform the process hazard analysis. Include at least one employee who has experience and knowledge specific to the process being evaluated, and at least one employee who is knowledgeable in the specific process hazard analysis methodology being used. [40 CFR 68.67(d)]
- 477 Establish a system to promptly address the team's findings and recommendations; assure that the recommendations are resolved in a timely manner and that the resolution is documented; document what actions are to be taken; complete actions as soon as possible; develop a written schedule of when these actions are to be completed; communicate the actions to operating, maintenance and other employees whose work assignments are in the process and who may be affected by the recommendations or actions. [40 CFR 68.67(e)]
- 478 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the resolution of the recommendations of the team performing the process hazard analysis, and what actions are to be taken. [40 CFR 68.67(e)]
- 479 Update and revalidate the process hazard analysis at least every five years after the completion of the initial process hazard analysis, to assure that the process hazard analysis is consistent with the current process. Use a team that meets the requirements in Sec. 68.67(d). [40 CFR 68.67(f)]
- 480 Retain process hazards analyses and updates or revalidations for each process covered by this section, as well as the documented resolution of recommendations described in Sec. 68.67(e), for the life of the process. [40 CFR 68.67(g)]
- 481 Perform an initial process hazard analysis (hazard evaluation) on processes covered by 40 CFR 68 as soon as possible, but not later than June 21, 1999. The process hazard analysis shall identify, evaluate, and control the hazards involved in the process, and address the information in 40 CFR 68.67(c)(1) through (7). [40 CFR 68.67]
- 482 Develop and implement written operating procedures that provide clear instructions for safely conducting activities involved in each covered process consistent with the process safety information. Address steps for each operating phase, operating limits, safety and health considerations, and safety systems and their functions in the procedures. [40 CFR 68.69(a)]
- 483 Make operating procedures readily accessible to employees who work in or maintain a process. [40 CFR 68.69(b)]
- 484 Review operating procedures as often as necessary to assure that they reflect current operating practice, including changes that result from changes in process chemicals, technology, and equipment, and changes to stationary sources. Certify annually that these operating procedures are current and accurate. [40 CFR 68.69(c)]
- 485 Develop and implement safe work practices to provide for the control of hazards during specific operations. [40 CFR 68.69(d)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

GRP023 Lake Charles Refinery - Area B

- 486 Train each employee presently involved in operating a process, and each employee before being involved in operating a newly assigned process, in an overview of the process and in the operating procedures as specified in Sec. 68.69. Emphasize the specific safety and health hazards, emergency operations including shutdown, and safe work practices applicable to the employee's job tasks. [40 CFR 68.71(a)(1)]
- 487 Provide refresher training at least every three years, and more often if necessary, to each employee involved in operating a process to assure that the employee understands and adheres to the current operating procedures of the process. [40 CFR 68.71(b)]
- 488 Ascertain that each employee involved in operating a process has received and understood the training required by Sec. 68.71. [40 CFR 68.71(c)]
- 489 Equipment/operational data recordkeeping by electronic or hard copy continuously. Prepare a record which contains the identity of the employee, the date of training required by 40 CFR 68.71, and the means used to verify that the employee understood the training. [40 CFR 68.71(c)]
- 490 Establish and implement written procedures to maintain the ongoing integrity of process equipment listed in Sec. 68.73(a). [40 CFR 68.73(b)]
- 491 Train each employee involved in maintaining the ongoing integrity of process equipment in an overview of that process and its hazards and in the procedures applicable to the employee's job tasks to assure that the employee can perform the job tasks in a safe manner. [40 CFR 68.73(c)]
- 492 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document each inspection and test that has been performed on process equipment. Maintain records of the information specified in Sec. 68.73(d)(4). [40 CFR 68.73(d)(4)]
- 493 Perform inspections and tests following recognized and generally accepted good engineering practices on process equipment listed in 40 CFR 68.73(a). Make the frequency of inspections and tests consistent with applicable manufacturer's recommendations and good engineering practices, and more frequently if determined to be necessary by prior operating experience. [40 CFR 68.73(d)]
- 494 Correct deficiencies in equipment that are outside acceptable limits before further use or in a safe and timely manner when necessary means are taken to assure safe operation. [40 CFR 68.73(e)]
- 495 Assure that equipment as it is fabricated is suitable for the process application for which it will be used, in the construction of new plants and equipment. Perform appropriate checks and inspections to assure that equipment is installed properly and consistent with design specifications and the manufacturer's instructions. Assure that maintenance materials, spare parts and equipment are suitable for the process application for which they will be used. [40 CFR 68.73(f)]
- 496 Inform employees involved in operating a process, and maintenance and contract employees whose job tasks will be affected, of a change in the process and train them in the change, prior to start-up of the process or affected part of the process. [40 CFR 68.75(c)]
- 497 Update the process safety information required by Sec. 68.65 if a change covered by 68.75 results in a change in the process safety information. [40 CFR 68.75(d)]
- 498 Update the operating procedures or practices required by Sec. 68.69 if a change covered by 68.75 results in a change in the operating procedures or practices. [40 CFR 68.75(e)]
- 499 Establish and implement written procedures to manage changes to process chemicals, technology, equipment, and procedures; and, changes to stationary sources that affect a covered process. Assure that the considerations specified in Sec. 68.75(b)(1) through (b)(5) are addressed prior to any change. [40 CFR 68.75]
- 500 Perform a pre-startup safety review for new stationary sources and for modified stationary sources when the modification is significant enough to require a change in the process safety information. Safety review must confirm the information specified in Sec. 68.77(b)(1) through (b)(4) prior to the introduction of regulated substances to a process. [40 CFR 68.77]
- 501 Develop a report of the findings of the compliance audit required by 40 CFR 68.79(a). [40 CFR 68.79(c)]
- 502 Determine an appropriate response to each of the findings of the compliance audit. [40 CFR 68.79(d)]
- 503 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document the appropriate response to each of the findings of the compliance audit, and document that deficiencies have been corrected. [40 CFR 68.79(e)]
- 504 Retain the two (2) most recent compliance audit reports. [40 CFR 68.79(f)]
- 505 Conduct compliance audit: Due at least every three years. Certify compliance with the provisions of the prevention program to verify that procedures and practices developed under 40 CFR 68 are adequate and are being followed. Conduct compliance audit by at least one person knowledgeable in the process. [40 CFR 68.79]

SPECIFIC REQUIREMENTS

AID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-V6

Air - Title V Regular Permit Minor Mod

GRP023 Lake Charles Refinery - Area B

- 506 Establish an incident investigation team consisting of at least one person knowledgeable in the process involved, including a contract employee if the incident involved work of the contractor, and other persons with appropriate knowledge and experience to thoroughly investigate and analyze the incident. [40 CFR 68.81(c)]
- 507 Establish a system to promptly address and resolve the incident report findings and recommendations. [40 CFR 68.81(e)]
- 508 Equipment/operational data recordkeeping by electronic or hard copy continuously. Document resolutions and corrective actions of the incident report findings and recommendations. [40 CFR 68.81(e)]
- 509 Conduct incident investigation: Due as promptly as possible, but not later than 48 hours following each incident which resulted in, or could reasonably have resulted in a catastrophic release of a regulated substance. [40 CFR 68.81]
- 510 Prepare a report at the conclusion of the incident investigation which includes, at a minimum, the information specified in 40 CFR 68.81(d)(1) through (5). Review the report with all affected personnel whose job tasks are relevant to the incident findings including contract employees where applicable. Retain the incident investigation reports for five years. [40 CFR 68.81]
- 511 Develop a written plan of action regarding the implementation of the employee participation required by 40 CFR 68. [40 CFR 68.83(a)]
- 512 Consult with employees and their representatives on the conduct and development of process hazards analyses and on the development of the other elements of process safety management. [40 CFR 68.83(h)]
- 513 Provide to employees and their representatives access to process hazard analyses and to all other information required to be developed under 40 CFR 68. [40 CFR 68.83(c)]
- 514 Issue a hot work permit for hot work operations conducted on or near a covered process. Document in the permit that the fire prevention and protection requirements in 29 CFR 1910.252(a) have been implemented prior to beginning the hot work operations; indicate the date(s) authorized for hot work; and identify the object on which hot work is to be performed. Keep permit on file until completion of the hot work operations. [40 CFR 68.85]
- 515 Obtain and evaluate information regarding the contract owner or operator's safety performance and programs, when selecting a contractor. [40 CFR 68.87(b)(1)]
- 516 Inform contract owner or operator of the known potential fire, explosion, or toxic release hazards related to the contractor's work and the process. [40 CFR 68.87(b)(2)]
- 517 Explain to the contract owner or operator the applicable provisions of 40 CFR 68 Subpart E. [40 CFR 68.87(b)(3)]
- 518 Develop and implement safe work practices consistent with Sec. 68.69(q), to control the entrance, presence, and exit of the contract owner or operator and contract employees in covered process areas. [40 CFR 68.87(b)(4)]
- 519 Periodically evaluate the performance of the contract owner or operator in fulfilling their obligations as specified in 40 CFR 68.87(c). [40 CFR 68.87(b)(5)]
- 520 Develop and implement an emergency response program for the purpose of protecting public health and the environment. Include in the program the elements listed in 40 CFR 68.95(a)(1) through (4). [40 CFR 68.95(a)]
- 521 Coordinate the emergency response plan developed under 68.95(a)(1) with the community emergency response plan developed under 42 U.S.C. 11003. Upon request of the local emergency planning committee or emergency response officials, promptly provide information necessary for developing and implementing the community emergency response plan. [40 CFR 68.95(c)]
- 522 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 523 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 524 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery
Activity Number: PER20070004
Permit Number: 2624.V6
Air - Title V Regular Permit Minor Mod

GRP023 **Lake Charles Refinery - Area B**

- 525 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
526 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.Subpart F]

RLP057 **EP-41 - FCCU Regenerator**

- 527 Total suspended particulate <= 19.95 lb/hr. The rate of emission shall be the total of all emission points from the source. [LAC 33:III.1311.B]
Which Months: All Year Statistical Basis: None specified
- 528 Opacity <= 30 percent, except for one six-minute average opacity reading in any one hour period. [LAC 33:III.1311.D]
Which Months: All Year Statistical Basis: Six-minute average
- 529 To ensure compliance with the CO emission limit (150 ppmvd at 0% O₂ on a 365-day rolling average basis), a Continuous Emission Monitoring System (CEMS) shall be installed and maintained on the FCCU Regenerator to monitor CO emissions. CEMS shall also be used to monitor NO_x and SO₂ emissions from this FCCU Regenerator. Consent Decree lodged on December 20, 2001. Civil Action No. H-01-4430. [LAC 33:III.501.C.6]
- 530 Annual stack test at this FCCU Regenerator shall be conducted for the particulate matter (PM) emissions. Tests may be conducted less frequently than annually upon a showing of at least three (3) annual tests that limits (1 pound PM per 1,000 pounds of coke burned) are not being exceeded. A Continuous Opacity Monitoring System (COMS) shall be installed and maintained on the FCCU Regenerator to monitor opacity emissions. Consent Decree lodged on December 20, 2001. Civil Action No. H-01-4430.
(Note: Stack tests were conducted in December 2002, December 2003, and December 2004). [LAC 33:III.501.C.6]
- 531 Daily records of the aqueous ammonia injected and ammonia concentration shall be kept on site and available for inspection for the Office of Environmental Compliance, Surveillance Division - State Only. [LAC 33:III.501.C.6]
- 532 Opacity shall not exceed 30%. PSD-LA-533 (M-3). [LAC 33:III.509]
- 533 Class III TAP. MACT is not required. [LAC 33:III.5109.A]
- 534 Comply with NSPS Subpart J. [LAC 33:III.Chapter 15]
- 535 Total suspended particulate <= 1 kg/Mg (2.0 lb/ton) of coke burn-off, except as specified in 40 CFR 60.102(b). Subpart J. [40 CFR 60.102(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 536 Opacity <= 30 percent, except for one six-minute average opacity reading in any one hour period. Subpart J. [40 CFR 60.102(a)(2)]
Which Months: All Year Statistical Basis: Six-minute average
- 537 Carbon monoxide <= 500 ppmv (dry basis). Subpart J. [40 CFR 60.103(a)]
- 538 Opacity monitored by continuous opacity monitor (COM) continuously. Subpart J. [40 CFR 60.105(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 539 Carbon monoxide monitored by continuous emission monitor (CEM) continuously, except as provided in 40 CFR 60.105(a)(2)(ii). Subpart J. [40 CFR 60.105(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 540 Rc & operating hours recordkeeping by electronic or hard copy daily. Record the average coke burn-off rate (Mg (tons) per hour) and hours of operation. Subpart J. [40 CFR 60.105(c)]
- 541 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 542 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 543 Particulate matter (10 microns or less) <= 1 lb /1000 lb of coke burned (1 kg/1000 kg) in the catalyst regenerator. Subpart UUU. [40 CFR 63.1564(a)(1)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 2538 - ConocoPhillips Co - Lake Charles Refinery

Activity Number: PER20070004

Permit Number: 2624-Y6

Air - Title V Regular Permit Minor Mod

RLP057 EP-41 - FCCU Regenerator

- 544 Opacity monitored by continuous opacity monitor (COM) continuously. Subpart UUU. [40 CFR 63.1564(b)(1)]
Which Months: All Year Statistical Basis: Six-minute average
- 545 Determine initial compliance with emission limitations using the procedures in 40 CFR 63.1564(b)(4) and (b)(5). Subpart UUU. [40 CFR 63.1564(b)]
- 546 Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 1 and 2 according to the methods specified in 40 CFR 63 Subpart UUU Tables 6 and 7, and in 40 CFR 63.1564(c)(3) and (c)(4), as applicable. Subpart UUU. [40 CFR 63.1564(c)(1)]
- 547 Carbon monoxide <= 500 ppmv (dry basis). Subpart UUU. [40 CFR 63.1565(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 548 Carbon monoxide monitored by continuous emission monitor (CEM) continuously, except as specified in 40 CFR 63.1565(b)(1)(i) through (b)(1)(iii). Subpart UUU. [40 CFR 63.1565(b)(1)]
Which Months: All Year Statistical Basis: None specified
- 549 Demonstrate initial compliance with each applicable emission limitation according to 40 CFR 63 Subpart UUU Table 12. Subpart UUU. [40 CFR 63.1565(b)(4)]
- 550 Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 8 and 9 according to the methods specified in 40 CFR 63 Subpart UUU Tables 13 and 14. Subpart UUU. [40 CFR 63.1565(c)(1)]

RLP058 EP-56 - No. 1/No. 2 SRU Stack

- 551 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1101.B]
Which Months: All Year Statistical Basis: None specified
- 552 Shall burn refinery fuel gas, hydrogen, or sweet natural gas only. The refinery fuel gas shall not exceed 0.1 grain of H2S per dry standard cubic foot. PSD-LA-584 (M-4). [LAC 33:III.509]
- 553 Low-NOx burners (0.12 lb NOx/MM BTU) shall be maintained on the SRU. PSD-LA-533 (M-3). [LAC 33:III.509]
- 554 Comply with NSPS Subpart J. [LAC 33:III.Chapter 15]
- 555 Sulfur dioxide <= 250 ppmv @ 0% excess air (dry basis). Subpart J. [40 CFR 60.104(a)(2)(i)]
Which Months: All Year Statistical Basis: Twelve-hour average
- 556 Sulfur dioxide monitored by continuous emission monitor (CEM) continuously. Include an oxygen monitor for correcting the data for excess air. Subpart J. [40 CFR 60.105(a)(5)]
Which Months: All Year Statistical Basis: None specified
- 557 Oxygen monitored by continuous emission monitor (CEM) continuously. Subpart J. [40 CFR 60.105(a)(6)]
Which Months: All Year Statistical Basis: None specified
- 558 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 559 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 560 Sulfur dioxide <= 250 ppmv (dry basis) at 0% excess air. Subpart UUU. [40 CFR 63.1568(a)(1)]
Which Months: All Year Statistical Basis: Twelve-hour average
- 561 Demonstrate initial compliance with each applicable emission limitation according to 40 CFR 63 Subpart UUU Table 33. Subpart UUU. [40 CFR 63.1568(b)(5)]
- 562 Demonstrate continuous compliance with each applicable emission limitation in 40 CFR 63 Subpart UUU Tables 29 and 30 according to the methods specified in 40 CFR 63 Subpart UUU Tables 34 and 35. Subpart UUU. [40 CFR 63.1568(c)(1)]

APPENDIX A

USE OF FLUE GAS OXYGEN MONITORS AS BACT FOR COMBUSTION CONTROLS

Within the time limits specified in Louisiana Air Emission Permit General Condition VIII, the permittee shall determine the emissions of nitrogen oxides (NO_x) and carbon monoxide (CO) from the permitted combustion device in accordance with test methods and procedures set out in 40 CFR 60, Appendix A, Methods 7E* and 10 respectively. These emission determinations shall be made at:

- 1) Maximum design capacity; and
- 2) Normal operating load.

The permittee shall install a continuous oxygen monitor in the flue gas of the permitted combustion device which meets the requirements of 40 CFR 60, Appendix B, Performance Specification 3. A range of excess air shall be established. The range shall be the oxygen content associated with NO_x and CO emission rates in the PSD permit, or, where a PSD limit does not exist, the appropriate limit in this permit. The range shall be determined such that the appropriate NO_x and CO limits are not exceeded.

The flue gas oxygen content shall be maintained within this range and alarms shall be set to sound when flue gas oxygen levels are outside of this range.

Should any combustion equipment modifications be made such as different type burners, combustion air relocation, fuel conversion, tube removal or addition, etc., emissions corrections as described above shall be conducted with 60 days of attaining full operation after such modification. Results of all emission determinations shall be sent to the permitting authority within 45 days after completion of the tests.

* A properly installed and calibrated continuous NO_x monitor may be substituted for Method 7E.

APPENDIX B

STREAMLINED EQUIPMENT LEAK MONITORING PROGRAM

Permittee shall comply with a streamlined equipment leak monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the fugitive emission monitoring programs being streamlined, as indicated in the following table. Non-compliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs.

- i) Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (LAC 33:III.Chapter 51) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamline program will include any exemptions based on size of component available in any of the programs being streamlined.
- ii) Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters. Some allowance may be made in the first year of the streamlined program in order to allow for transition from existing monitoring schedules.
- iii) Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted on January 31 and July 31, to cover the periods July 1 through December 31 and January 1 through June 30, respectively. The semiannual reports shall include any monitoring performed within the reporting periods.
- iv) The facility shall comply with the requirements of the Louisiana MACT Determination (LDREL) for Refinery Equipment Leaks dated July 26, 1994, except as noted below:
 - A. A connector is in VOTAP service if a piece of equipment that either contains or contacts a volatile fluid (liquid or gas) that is at least 5% of the sum of all Class I and II organic toxic air pollutants.
 - B. Connectors that are determined to be leaking by visual, audible, olfactory, or any other detection method shall be monitored, repaired, recorded, and reported according to the provisions in the Louisiana Refinery Equipment Leaks Determination and any applicable equipment leak programs.
 - C. Connectors associated with valves shall be monitored according to the valve requirements of the applicable program. However, each associated connector shall be monitored as part of the valve and not as separate component. A connector that is associated with a valve and is determined to be leaking shall result in the valve being recorded as a leaking valve and included in the calculation of percent valves leaking.

- D. Permittee shall submit to the Office of Environmental Assessment, Environmental Technology Division reports containing information concerning valves. ConocoPhillips Company shall include on these reports the number of connectors associated with the valves that were monitored and the number of connectors found leaking, but shall not report a percent connectors leaking.

Unit or Plant Site	Program Being Streamlined	Stream Applicability	Overall Most Stringent Program
Lake Charles Refinery	LAC 33:III.5109 – Louisiana MACT Determination for Refineries	$\geq 5\%$ VOTAP	Louisiana MACT Determination for Refineries*
	40 CFR 61 Subparts F, J, and V	$\geq 5\%$ VOHAP	
	40 CFR 60 Subpart GGG	$\geq 5\%$ VOHAP	
	LAC 33:III.2122 – Louisiana Fugitive Emission Control for Specified Parishes	$\geq 5\%$ VOC	

* Comply with Louisiana MACT Determination for Refineries with exceptions as listed in paragraph iv.